PCM-R300

SERVICE MANUAL

Ver. 1.2 2006, 04

US Model Canadian Model AEP Model **UK Model**



Model Name Using Similar Mechanism	DTC-A6
Tape Transport Mechanism Type	DATM-110A

SPECIFICATIONS

Recording section Tape	Digital audio tape	General section Power requirements		Input jack Aralog Inpu			
Recording head	Ectory head	Where purchased	Power requirements	lack	Type	Input	R
becording time	Sundard 120 minutes	U.S.A./Canada	120 V AC, 60 Hz	-	- 12-77.00 JW	impedance	
	Long-play: 240 minutes (DT-120)	Borope/U.K	230 V AC, 50/40 Hz	(LINE)	Phone-plug jack	47 kilohma	-
Tage speed	Standard: 835 part/s	Power consumption	30 W	Digital Impu			
	Long-play: 4:075 mm/s	Dimensions	Approx 432 = 122 = 325 mm (w/h/d)	Jack	Туре	Input	Rate
Down notation	Standard: 2,000 rpm		(17 × 4 ² /s × 12 ¹ /s inches) (not including rack mount subspace)			impedance	7
	Long-play: 1,000 rpm		dere received are mente androit	COAXIAL	Phono-plug	75 ohms	0.53
Error correction	Double-encoded Reed Solomon code	Weight	Approx 5.0 kg (31 fb)	-11.00	jack.	TEMPHESON.	10000
				OPTICAL	Optical jack	-	
Tape section			RM-D757 (supplied)	95 12 5 5 14			
Track pitch	13.6 µm (20.4 µm)	Remarte control system	briared control	Output ja	den		
Sampling frequency	48 kHz, 44.1 kHz, 32 kHz	Power requirements	3V DC, with two stor-AA (Rf) batteries	Analog Duty	ut		
Medulation system	8-10 modulation	Binensions	Appear 45 × 210 × 26 mm (w/h/d) (1"/m×8"/n×1"/m (nches)	Jack	Туре	Output impedance	Rates outpo
Transfer rate	2.46 Mint/arc	Weight	Agryrox 100g (3.5 oz) and, batteries	Citation I			3946
Number of channels	2 channels, stenso			(LINE)	Phono-plug jack	470 ohms	-12 d
D / A conversion (quantitation)	Standard: 16-bit linear Long-play: 12-bit non-linear			PHONES	Staroo phore- plug jack	100 ohms	0.36 n

lack	Type	Input impedance		d input
ANALOG (LINE)	l'hono-plug jack	47 kilohma	-t2 d	Be
Digital Impa				
Jack	Туре	Input impedance		nput level
CDAXIAL	Phono-plug jack	75 ohms	0.5 Vp-1	P
OPTICAL	Optical jack	-		_
Output ja Analog Dut Jack		Output impedance	Rated output level*	Load impedance
			texes.	
ANALOG (LINE)	Phono-plug jack	670 ohms	3944	67 kilohms

- Continued on next page -

DIGITAL AUDIO RECORDER

9-922-708-13 **Sony Corporation** Home Audio Division 2006D02-1

Published by Sony Techno Create Corporation © 2006.04



Digital Output

Jack	Туре	Output impedance	Rated output level	Load impedance
COAXIAL	Phono- plug jack	75 ohms	0.5 Vp-p	75 ohms
OPTICAL	Optical jack		Wavelength: 660 nm	<u></u>

Audio characteristics

Frequency response^{b)} Standard: 20-20,000 Hz (\pm 0.5 dB) Long-play: 20-14,500 Hz (\pm 0.5 dB)

Signal-to-noise ratio^{b)} 90 dB or more (20 kHz LPF, A-Weight

filter ON)

Total harmonic distortion^{b)}

Standard: 0.05% or less Long-play: 0.3% or less

(1 kHz, Reference level^{a)} 20 kHz LPF

ON)

 $\begin{tabular}{ll} \begin{tabular}{ll} \beg$

W.PEAK)

a) The reference level corresponds to –20 dB on the peak level meters.

b) During analog input with the SBM function off

Supplied accessories

- AC power cord (1)
- Remote commander (remote) RM-D757 (1)
- Size-AA (R6) batteries (2)
- Rack mount adaptors (2)
- Screws $(M5 \times 12)$ (4)
- Decorative washers (4)
- Decorative panel (1)
- Tapping screws (3×8) (2)
- Operating instructions (1)

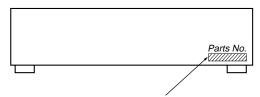
Design and specifications are subject to change without notice.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

MODEL IDENTIFICATION

- Back Panel -



 $3-018-941-0\pi$: US, Canadian model $3-018-941-1\pi$: AEP, UK model

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth Ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

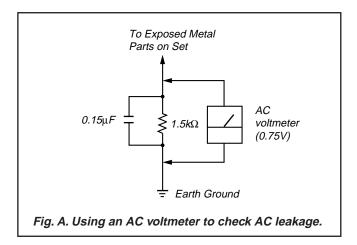


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SECTION 1 SERVICING NOTE

Fluorescent indicator tube lit, key check mode

The Fluorescent indicator tubes and keys can be checked in this test mode.

Settings: INPUT switch : Center click

ID MODE switch : Center click REC MODE switch : Center click

NOTE: The method differs for when the remote commander provided is used or not.

Method:

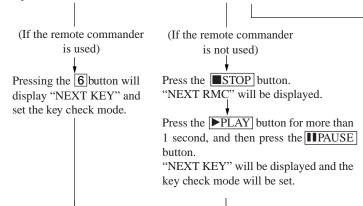
- 1. Disconnect the AC plug from the outlet, and short-circuit the TP (TEST) of the display board and ground.
- Connect the AC plug to the outlet, and turn on the power to start the check.

Flow:

The left and right segments of the Fluorescent indicator tubes and level meters light up, and the grids light up in order from the right side.

The level meters go off one by one.

Operate the remote commander for DAT in this state.



Pressing a button on the panel or switching a switch will light up the level meters one by one.

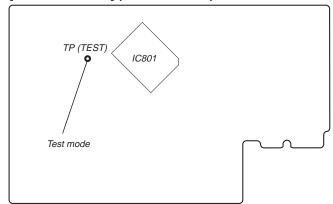
When all buttons and switches have been operated, all the level meters will be lit and "KEY OK" will be displayed instantaneously.

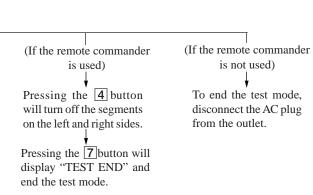
"TEST END" is displayed and the test mode is ended.

• To reset the test mode, turn the power off and disconnect the wire shorting TP (TEST) and ground.

Part Location

[DISPLAY BOARD] (Conductor side)

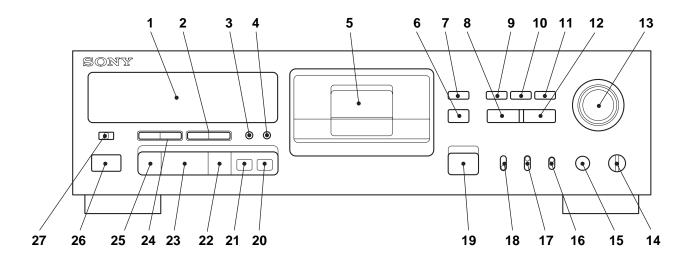




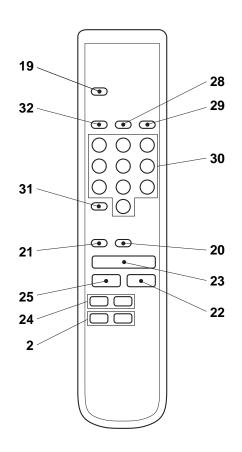
SECTION 2 GENERAL

Location of Parts and Controls

Front panel



Remote commander (RM-D757)

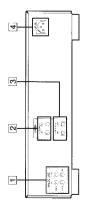


- 1 Display window
- 2 ◀◀/▶▶ (REW/FF), DATA buttons
- 3 MODE, MENU button
- 4 RESET, ENTER button
- 5 Cassette holder
- 6 Remote sensor
- 7 MARGIN RESET button
- 8 WRITE button
- 9 START ID AUTO button
- 10 START ID RENUMBER button
- 11 START ID REHEARSAL button
- 12 ERASE button
- 13 REC LEVEL control
- 14 PHONE LEVEL control
- 15 PHONES jack
- 16 SBM switch
- 17 REC MODE switch
- 18 ID MODE switch
- 19 ▲ OPEN / CLOSE button
- 20 REC button
- 21 O REC MUTE button
- 22 II PAUSE button
- 23 PLAY button
- 24 ► AMS, SELECT buttons
- 25 STOP button
- 26 POWER button
- 27 INPUT switch
- 28 COUNTER MODE button
- 29 COUNTER RESET button
- 30 Numeric buttons
- 31 CLEAR button
- 32 REPEAT button

Getting Started

Hooking Up the System

This section describes how to hook up your deck to an components. Be sure to turn off the power to each amplifier, CD player, MD deck, or other audio component before making the connections.



1 ANALOG (LINE) IN/OUT jacks

2 DIGITAL COAXIAL IN/OUT jacks

3 DIGITAL OPTICAL IN/OUT jacks

4 AC IN socket

Analog connections

Use phono-plug audio connecting cables (not supplied).

Digital connections

Use coaxial digital connecting cables (not supplied). OUT jacks

For connections through the DIGITAL COAXIAL IN/

For connections through the DIGITAL OPTICAL IN/

Use optical digital connecting cables (not supplied). OUT jacks

Connecting the AC power cord

Connect the AC power cord (supplied) to the AC IN socket on the rear panel and connect the plug on the other end to a wall outlet.

Digital Interface

Digital input and output jacks

- correspond to the input and output jacks on the · The following table shows signal formats that
- · The DIGITAL COAXIAL IN jack accepts not only the consumer version of the IEC-958 international digital audio interface standard, but also the broadcasting studio version of the IFC-958 standard used by such DAT decks as the PCM-2300, PCM-2700 or PCM-

	Input signal format	Output signal format
COAXIAL USE	IEC-958 for consumer use	
OPTICAL		IEC-958 for
DIGITAL IEC	IEC-958 for	consumer use
COAXIAL bro	broadcasting studio	
asn		

Copy information during recording

- recording varies according to the input jack used and Copy information that is recorded on tape during In the case of the IEC-958 for broadcasting studio the signal format, as shown in the table below.
- generation copy permitted, and copying prohibited · As for the IEC-938 for consumer use, three types of use, the digital signal carries no copy information. copy information exists: copying possible, first-

t System).	-
(Serial Copy Management System).	
Copy N	
(Serial (4 (1-4)

input Jack	format	information capability carried by on this digital signal deck	capability inform on this record	rupy information recorded on tape
DICITAL	DICITAL IEC-958 for None COAXIAL broadcasting studio use	None	Possible	Determined by menu setting (page 19)
DIGITAL COAXIAL/ OPTICAL		Permitted	Possible	Permitted (ID 6:00)
	TEC-958 for consumer use	First- generation only	Possible	Prohibited (ID 6:10)
		Prohibited Possible	Possible	Prohibited (ID 6:10)

Where do I go next?

For basic operations, go to pages 7 to 9; for advanced Now you're ready to use your deck

operations, go to the sections starting from page 10.

during recording, the automatic writing of start IDs

· When the AUTO indicator lights up in the display

Automatic writing of start IDs during

recording

takes place according to the input jack used and the

· You can select the trigger for the automatic writing

signal format, as shown in the table below.

of start IDs such as an audio input signal level, a DAT start ID code, or a Q-code from a CD track by

menu settings (see pages 19 and 20).

x: automatic writing prohibited O: automatic writing possible

Input	Signal	Automatic	Automatic writing according to	ording to
јаск	tormat (Category code)	audio input level ³	DAT start	DAT start Q-code ID ^{b)} from a CD track
DIGITAL	DIGITAL IEC-958 for COAXIAL broadcasting studio use	0	ð	×
DIGITAL	DIGITAL IEC-958 (DAT) O	DAT) O	0	×
COAMAL/ for OPTICAL con	COAMAL, for OPTICAL consumer (CD)	0 (0)	×	Ĝ

TH" menu longer than the time set in the "I,-SY BK" menu a) If the input level remains under the level set in the "L-SY (see page 19), the deck writes a start ID when the input

×

0 (Other) O

ANALOG (LINE) nsc

level rises above that level.

b) DAT skip IDs are automatically written in the same way. c) Only when connected to the PCM-2300, PCM 2700, or

PCM-2700A. d) Some CD players do not output track information (Qcode) in the digital signal.

Digital signal lock range

- The lock range of a digital signal (signal reception range) is about ±0.1% for a sampling frequency of 48 kHz, 44.1 kHz, or 32 kHz. Variable pitch signals are
- information does not match the actual sampling frequency, it is possible to record that signal if you change the REC MODE switch on the front panel to the actual sampling frequency of the signal. When the digital input sampling frequency

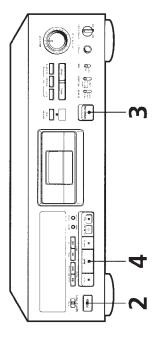


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Determined by menu setting (page 19)

Basic Operations

Playing a Tape



See page 5 for hookup information.

Turn on the amplifier and set the source selector to the position for DAT.

Press POWER.

Do not close the cassette holder without pressing OPEN/CLOSE ♣. Press OPEN/CLOSE _ and insert a cassette. Insert the cassette beyond the silver bar. Window side up

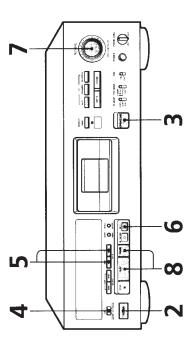
Press PLAY ▶. 4

To use headphones
Connect them to the PHONES
jack. Use PHONE LEVEL to
adjust the volume.

The deck starts playing. Adjust the volume on the amplifier.

To	Press
Stop playing	STOP ■
Pause playing	PAUSE ■ Press the button again or press PLAY to resume play.
Go to the next track or the preceding track	►► (AMS) or I← (AMS)
Fast-forward or rewind	►► (FI?) or ►► (RLW) when the deck is stopped
Fast-forward or rewind while monitoring the sound	➤► (FF) or ←← (REW) during playback. Release the button to resume normal playback.
Take out the cassette	OPEN/CLOSE ♣ after stopping playing

Recording on a Tape



See page 5 for hookup information.

You can monitor the input signal (Source Monitor function)

1 Do stops 1 and 2 on this page.

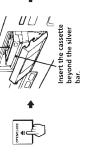
2 Skip steps 3 and 5, and do steps 4 and 6. When you press the REC button, "NO TAPE" and "SOURCE" appear in the display and you can monitor the program source connected to the selected input connector.

Turn on the amplifier and play the program source you want to record.

Press POWER.

Press OPEN/CLOSE ▲ and insert a cassette

Window side up



Do not close the cassette holder without pressing OPEN/CLOSE ▲.

Set INPUT to the corresponding input connector. 4

To record through	Set INPUT to
ANALOG (LINE) IN	ANALOG
DIGITAL OPTICAL IN	OPT
DIGITAL COAXIAL IN	COAXIAL

m

Recording Operations

Locate the position where you want to start recording.

To record from the beginning of the tape

Press ◆ (REW) to rewind the tape to its beginning.

To record from the end of the recorded portion

- 1 Press ◄ (REW) to rewind the tape to its beginning.
 2 Press ▶▶ (FF).
- The deck locates the end of the recorded portion on the tape and stops automatically.

Press REC 9

🗳 If "UNLOCK" appears in the

connected to the deck properly or is not turned on. source is properly connected

The program source is not

Make sure that the program

or turned on.

The deck changes to recording pause. Recording does not start yet.

When recording the analog input signal, adjust the recording level with REC LEVEL CH-1 (L)/2 (R).

The recommended recording level is 3.

🌣 To adjust the recording level

more accurately

Press PAUSE ■ or PLAY ▶. Recording starts. 00

(R) so that the recording level

turn REC LEVEL CH-1 (L)/2 on the peak level meters is at

While monitoring the sound,

Start playing the program source. 9

automatically to its beginning and stops (Auto Rewind). When the tape reaches the end, the deck rewinds it

MARGIN indication II and was a second with the second with the second with the second was a second was a second with the second was a second was a second with the second was a second was a second with the second was a second with the second was a second with the second was a s

Remains unlit

level meters corresponding to the maximum signal strength

The segments of the peak

remain lit longer than normal.

The MARGIN indication

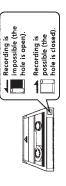
OPEN/CLOSE ♣ after stopping recording PAUSE II. Press the button again to STOP Take out the cassette Pause recording Stop recording

To prevent accidental erasure
Slide the record-protect tab to the left as shown in the illustration below.

maximum signal strength and

0 dB, changing each time a shows the margin between

stronger signal is input.



steadily, sound distortion may occur. To avoid this, keep the recording level between -12

If these segments light

margin indication changes to

Press MARGIN RESET. The

To reset the margin

dB and 0 dB.

OVER indicator light up, and '0.0dB" flashes in the display.

If the level exceeds 0 dB

The segments under the

If you insert the cassette whose hole is open and press the REC $\ensuremath{\bullet}$ button, "PROTECT" appears in the display and the recording cannot be done.

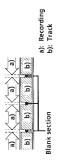
hings You Should Know **Before Recording**

The difference between a blank section and a sound-muted section

The deck distinguishes between two kinds of silent sections, which are respectively called a "blank section" or "sound-muted section".

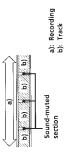
Blank section

This is a section on which no signal has ever been recorded.



Sound-muted section

This is a section on which a signal has been recorded but at a level that is not audible.



Important

impossible or destroy the continuity of the absolute Make sure no blank sections are created while you are recording. The existence of blank sections operations using the I◀◀/▶▶ (AMS) buttons within recorded material will make search time codes.

Absolute time codes

Absolute time codes indicate the elapsed time from the beginning of the tape. These codes are automatically recorded. Note that once recorded, absolute time codes cannot be re-written.

For accurate recording of absolute time codes

- If the tape is blank, make sure to start recording from the beginning of the tape.
 - between tracks. Do not advance the tape with the Use Record Muting (see page 12) to insert spaces PLAY ▶ or ▶▶ (FF) button.
- To start recording from the middle of a tape, use End Search (see this page) to locate the end of the recorded portion. This will prevent the creation of blank sections.

If the EMPHASIS indicator lights up in the

The deck is recording a digital signal with emphasis (in the higher frequencies). The recording will also contain the same emphasis.

If the deck is left in recording pause for more than 10 minutes

Recording pause will be released automatically, the deck will stop for the sake of tape protection and "SOURCE" will appear in the display.

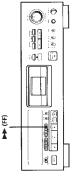
To resume recording, press the REC • button. The deck will change to recording pause.

When using a new tape

you fast forward the whole tape and then rewind to the Before you record on a new tape, we recommend that beginning to make the tape reel smoothly.

Recorded Portion (End Search) Locating the End of the

will prevent the creation of a blank section on the tape Search to locate the end of the recorded portion. This When recording from the middle of a tape, use End



Press **PP** (FF) with the deck stopped.

The deck locates the end of the recorded portion (the beginning of the blank portion or the position of the end ID), then stops

The deck stops at the beginning of any blank section that is 9 seconds or longer, or fast-forwards to the end of the tape if the tape is blank.

🍟 When you press the REC 🖷 button while in a blank

section and changes to recording pause. "BLANK" and "WAIT" appear in the display while the deck is The deck rewinds the tape to the beginning of the blank searching for the beginning of the blank section.

End Search does not operate if you press the ▶▶ (FF) button while in a blank section.

9EN 10EN

entering the OVER range.

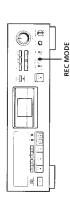
maximum level without

Setting the Recording Mode

You can select either of two recording modes-

- standard or long—in the following cases.

 When recording an analog input signal with the INPLT switch set to ANALOG
 - sampling frequency of 32 kHz with the INPUT When recording a digital input signal with a switch set to OPT or COAXIAL.



Set REC MODE to select the recording mode.

The following table shows the selectable recording modes and corresponding REC MODE position and sampling frequency for various input signals.

Input signal	REC MODE position	Recording mode
Analog	STANDARD (48 kHz)	Standard play (48 kHz)
	STANDARD (44.1kHz)	Standard play (44.1 kHz)
	LONG	Long play (32 kHz)
Digital (32 kHz)	STANDARD (48 ki lz)	Standard play
	STANDARD (44.1kHz)	(32 kHz)
	LONG	Long play (32 kHz)
Digital (44.1 kHz)	STANDARD (48 kHz)	Standard play
	STANDARD (44.1kHz)	(44.1 kHz) (Standard play only)

-9-

Standard play (48 kHz) (Standard play only) STANDARD (44.1kHz) STANDARD (48 kHz) LONG Digital (48 kHz)

LONG

The recording time in long-play mode (the REC MODE switch set to LONG) is twice as long as standard-play

The LONG indicator lights up in the display while playing or recording in long-play mode.

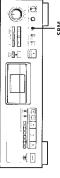
The counter in long-play mode

The displayed tape running time, absolute time and remaining time on the tape are for standard-play mode. Double the time to obtain the corresponding times for long-play mode.

Do not change the INPUT or REC MODE setting while recording. This may cause an error in the "PGM TIME" (playing time of the track) display.

Using the SBM (Super Bit Mapping) Function

signal only when the INPUT switch is set to ANALOG and the REC MODE switch to STANDARD (either 48 You can use the SBM function to record analog input nearing and noise-shaping technology to reduce The SBM function uses the principles of human quantizing noise within the frequency band. kHz or 44.1kHz).



ect SBM to ON.

he SBM indicator lights up in the display during ecording using the SBM function.

o turn the SBM function off

et SBM to OFF.

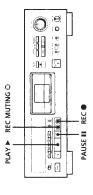
The SBM function operates only during recording. The improved sound produced by the SBM function, however, can be enjoyed during playback, regardless of the SBM switch position or the DAT deck being used.

Recording Operations

Inserting a Sound-Muted Section While Recording Record Muting)

Use Record Muting to insert a space of about 0.5 to 9.5 seconds between tracks.

For details on setting the duration of the blank space, see "Menu Operations" ("REC MUTE") on page 19.



Press REC MUTING O where you want to insert a space while the deck is recording or in recording

the display stay on and the deck changes to recording The REC indicator in the display starts flashing and After inserting a space, the REC and II indicators in tape transport continues, but no signal is recorded.

To insert a blank space (of a duration different from that preset by menu setting)

Hold down the REC MUTING O button as long as you

When you release the REC MUTING O button, the

REC and the III indicators stay on and the deck changes When the preset duration has passed, the REC indicator begins to flash faster and the MARGIN indication shows how long the REC MUTING O button has been pressed. to recording pause.

To insert a blank space of a duration shorter than the preset value

Press REC • while the REC indicator is flashing. The deck starts recording again.

To resume recording

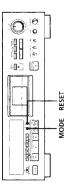
Press PAUSE II or PLAY .

If you do not create a sound-muted section at the beginning of a tape, you may not be able to move or erase a start ID (see page 15) that is recorded within 2 seconds from the beginning of the tape.

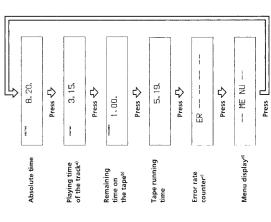
Playback Operations

About the Display

You can use the display to show the tape running time, absolute time, playing time of the track, remaining time on the tape, error rate, and menu display.



Each time you press the button, the display changes as Press MODE (or COUNTER MODE on the remote).



- a) The playing time of the track will not be displayed when the "P-TMDISP" is set to "--" (see page 20).
- b) In the case of a premastered tape, the remaining time is to
- the end of the recorded portion.

 c) Numeric characters appear only during playback. During -," For details on the error rate counter, see "Notes on the error recording or pause, the counter shows "ER
 - stopped, or paused. For details on how to access various rate counter" on page 13.
 d) Menu display appears only when the deck is empty, menu settings, see "Menu Operations" on page 19.

Press RESET (or COUNTER RESET on the remote). To reset the tape running time

Playback Operations

- When playing certain types of premastered tapes, "BB" may appear momentarily in the display at the beginning of the tape.
 - . The playing time of the track does not appear in the
- When you start playing from the middle of the track - During rewinding
 - · In standard-play mode, the remaining time on the tape
- appears about 16 seconds after you start playing.

 The displayed remaining time may vary somewhat from
 - the actual remaining time, depending on the tape.

Notes on the error rate counter

recording of single audio channel takes both heads, the The four digits on the right and the left show the error error detected for the playback head A or B does not The counter shows the error rate of the audio signal being played back for both playback heads A and B. appears for the respective playback head. Since the necessarily correspond to the error on the L or R respectively. When no error is detected, "0000" rate detected on the playback heads A and B,

- The counter may temporarily show high rate in the
- following cases:

 when you play a portion recorded with INPUT or REC

 the above the properties of mode setting has been changed during recording.
 - -- the transition from one recording to another or when you monitor the sound at high speed.
- The display returns to the absolute time indication when beginning or the end of the tape is being played.
- the ID RENUMBER, ID REHEARSAL, WRITE, or FRASE button.

If the ERR indicator flashes in the display or the error rate counter remains in positive value for 5 seconds or more

- · The playback head is dirty. Clean the head with the
 - DAT cleaning cassette (see page 21).
 - The tape is defective or damaged.

If the EMPHASIS indicator lights up in the display

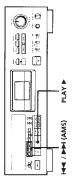
deemphasizing it (with attenuation proportional to the The deck is playing an audio signal recorded with emphasis (in the higher frequencies). The deck, however, plays the signal while automatically degree of emphasis).

If "THINTAPE" appears in the display

A cassette over 130 minutes long is inserted.

Locating a Track (AMS*/Direct Access)

after you have recorded start IDs on the tape (see pages 15 to 17). To use Direct Access, program numbers You can locate the tracks in a number of ways, but only must be recorded on the tape (see pages 15, 16 and 18).



To locate Do the following: The beginning of the next Perss P⇒1 (AMS) as many times or succeeding tracks as you want while playing. For example, to locate the second track (AMS) The beginning of the Press f⇔ (AMS) once while playing. The beginning of the Press f⇔ (AMS) as many times playing. The beginning of syou want while playing. For preceding tracks (AMS) Syou want while playing. For preceding tracks (AMS) Syou want while playing. For preceding tracks (AMS) Syou want while playing. For preceding tracks (AMS)
--

	1	
specifying the program	_	By specifying the program 1 Enter the program number of
number of a track		the track with the number
Direct Access)		buttons.
	~	2 Press ▷ (or PLAY ▶ on the

AMS = Automatic Music Sensor.

main unit).

🏅 If you enter the wrong program number during Direct Access

If you haven't pressed the > button, press the CLEAR button on the remote, then enter the correct number. If you have already pressed the button, pressing the CLEAR button will not erase the wrong program number. Stop the deck and reenter the program

if the deck detects a blank section of 9 seconds or more, end ID, or the end of the tape (Auto Rewind) The deck rewinds the tape automatically to its

beginning and stops.

You can make the deck start playing automatically from the beginning of the tape after rewinding Press PLAY ▶ while holding down ◄◄ (REW). (Auto Play)

To stop playing a track repeatedly
Press REPEAT repeatedly until the REPEAT 1 indicator goes off.

You can play a specific track or all the tracks on the

tape repeatedly.

Playing Tracks Repeatedly

(Repeat Play)

Repeat Play of a single track is canceled when you take out the cassette.

Specific Portions During Playing Tracks Skipping Playback (Skip Play)

10000 100000 1400010

10

REPEAT

Please note that skip IDs (see page 15) must be written on the tape before you can use Skip Play.

MA / PM (SELECT) MENU

Press REPEAT repeatedly while playing a track until

Playing all tracks repeatedly

Repeat Play, it will rewind the tape to its beginning

- A blank section of 9 seconds or more

and start playing again.

- The end of the tape or the end ID To stop playing all tracks repeatedly

If the deck detects either of the following during

The deck will play all tracks 5 times, then stops. the REPEAT indicator lights up in the display.

- ← / ►► (DATA) ENTER
- MENU repeatedly until "--MENU--" appears in While the deck is stopped or paused, press the display.

Press REPEAT repeatedly until the REPEAT indicator

goes off.

Repeat Play of all tracks is canceled when you take out the

- Press ►► / ▶► (SELECT) repeatedly to select Press ◆◀/▶▶ (DATA) to select "on." "SKIPPLAY." m
 - 'on" indication flashes in the display.
- The SKIP PLAY indicator lights up in the display. When the deck detects a skip ID, it fast-forwards the tape to next start ID, then resumes playing. Press ENTER.

Press REPEAT repeatedly while playing the track you want to repeat until the REPEAT 1 indicator lights up

Playing a track repeatedly

To cancel Skip Play

Do steps 1 to 4 above to set "SKIPPLAY" to "--." The SKIP PLAY indicator goes off.

If the deck detects any of the following during Repeat

Play, it will rewind the tape to the start ID of the

current track and starts playing again from that

- A blank section of 9 seconds or more - A skip ID with Skip Play activated

— The next start ID

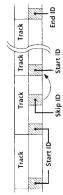
— The end of the tape or end ID

The deck plays the current track 5 times and then

Writing Sub Codes

About Sub Codes

in the DAT format, control codes, or sub codes, such as on the tape separately from the audio signal, they have tape with the audio signal. Since sub codes are written start IDs, skip IDs, and end ID can be recorded on the no effect on the audio signal.



long-play mode) to enable easy detection during fastallow you to locate the position of a track precisely. The start IDs are 9 seconds in length (18 seconds in Start IDs indicate the start of a track, and therefore forwarding or rewinding.

Program numbers

Program numbers serve as track numbers. Occupying the same position as start IDs, a program numbers allow you to locate specific tracks or play tracks in a specific order.

Skip IDs

Skip IDs indicate tracks or recorded portions that are to be skipped while playing. Skip IDs are I second in ength (2 seconds in long-play mode).

End ID

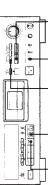
stops and the deck rewinds the tape to its beginning. If An end ID indicates the end of a recording. An end ID When an end ID is detected during playback, playback an end ID is detected during fast-forwarding, the tape is 9 seconds in length (18 seconds in long-play mode). stops at that point and deck becomes ready for recording from that point.

- All tape operation buttons do not work during the writing
- program numbers are impossible if the record-protect hole or crasing of sub codes.

 • Writing and erasing of sub codes and renumbering of

on the DAT cassette is open (see page 9).

Writing Sub Codes During Recording



Writing start IDs manually during recording

PAUSE II REC MUTING O ID AUTO ID MODE WRITE

2 Press WRITE.

Set ID MODE to START.

seconds and the start ID is written on the tape. The START ID indicator flashes in the display during this time. "ID WRITE" appears in the display for a few



The interval between start IDs must be more than 18 seconds (36 seconds in long-play mode). If the interval is less than 18 seconds (or 36 seconds), the deck may fail to detect the second start ID while playing a tape

Writing start IDs automatically during recording

- Set ID MODE to START.
- 2 Press ID AUTO repeatedly until the AUTO indicator lights up in the display.

of start IDs, see "Automatic writing of start IDs during For details on the condition for the automatic writing recording" on page 6, and "Menu Operations" on pages 19 and 20.

Writing program numbers during recording

Program numbers occupy the same positions as the start IDs and are determined by depending on the following conditions:

When a program number is displayed

The next program number rises by one above when the next start ID is written. (Continued)

Writing Sub Codes

When no program number is displayed ("--" appears

Program numbers are not written even when start IDs number, and then locate the position where you want are written. To write program nunbers, rewind the tape to the nearest start ID to display the program

The program number will start with 1. However, you can change the program number assigned to the first track by setting the "FIRST(PCM NO.)" menu (see page 20). When you record from the beginning of the tape

Specifying the program number to be

Pause recording.

assigned

To cancel the number, press the CLEAR button on 2 Press the number button(s) to input the program The number appears in the display. number you want to assign.

the supplied remote.

A start ID and the assigned program number are written simultaneously. m

start IDs may be inaccurately or inappropriately positioned away from the beginning of the track. If this happens, you During automatic start ID writing the positioning of some can reposition or erase the start IDs later (see "Accurate positioning of sub codes" on this page and page 17, and Erasing Sub Codes" on page 18).

Writing skip IDs manually during recording

2 Press WRITE.

Set ID MODE to SKIP.

The skip ID is written on the tape. The SKIP ID indicator flashes in the display during this time.

Writing an end ID during recording

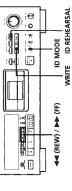
- When the recording of the program source comes to an end, press PAUSE II or REC MUTING O. Recording is paused.
- Set ID MODE to END.

3 Press WRITE.

When writing has finished, the record pause mode "ID WRITE" or "EE" appears in the display while is canceled and the deck rewinds the tape to the the end ID is being written. beginning of the end ID.

Writing Sub Codes During Playback

You can write start IDs, skip IDs, or an end ID during playback.



- Set ID MODE to the position for the type of ID you want to write.
- rewinds to the point where you pressed the button, and then "ID WRITE" appears in the display for a few seconds and the specified ID is written on the "(WRITE)" appears in the display while the deck Press WRITE. ~

Accurate positioning of sub codes (Rehearsal function)

- Set ID MODE to the position for the type of ID you want to write.
- selected position. The repeated portion plays back indication flashes in the display and the Rehearsal function repeats a 3-second portion containing the appearing to the right of the "REHRSL." After 8 During playback, press ID REHEARSAL when 8 times, with the remaining number of times you arrive at the proper position. "REHRSL" appears, the corresponding ID
 - In the case of a skip ID or an end ID, the 3-second portion starts from the point where you pressed In the case of a start ID, the 3-second repeated repeated portion ends at the point where you the ID REHEARSAL button. times, the deck stops.

pressed the ID REHEARSAL button.

Writing Sub Codes

button, the beginning of the repeated portion shifts backwards or forwards in 0.3-second increments, Each time you press the ◀◀ (REW) or ▶▶ (FF) up to a maximum extent of about 2 seconds (4 seconds in long-play mode) in either direction. Press AA (REW) or PV (FF) to move the beginning of the repeated portion. m

rewinds to the point where you pressed the button,

and then "ID WRITE" appears for a few seconds

and the ID is written on the tape at the selected

"(WRITE)" appears in the display while the deck

Press WRITE to write the ID.

4

When writing a start ID

Skip IDs are 1 second long starting from the end

· An end ID is 9 seconds long starting from the

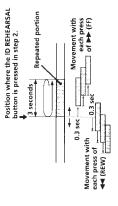
of the repeated portion.

end of the repeated portion.

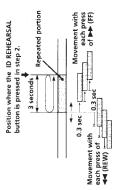
Newly written IDs positioned by the Rehearsal

Start IDs are 9 seconds long starting from the

beginning of the repeated portion.



When writing a skip ID or an end ID



The time in the display shows the shift in position from the time the ID REHEARSAL button was pressed.

Example: Positioning Start ID

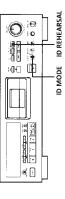
After pressing **PP** (FF) twice



9 seconds 9 seconds Repeated portion 1 second → Tape direction Start ID Skip ID End ID

Adjusting the Position of an **Existing Start ID**

You can adjust the position of previously recorded start IDs.



Set ID MODE to START.

During playback, press ID REHEARSAL when the existing start ID you want to reposition is displayed.

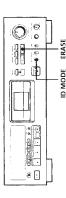
The deck rewinds to the beginning of start ID and Rehearsal repeats a 3-second portion.

codes (Rehearsal function)" on this page.

You can move the start ID to a maximum extent of about 2 seconds (4 seconds in long-play mode) in Do steps 3 and 4 of "Accurate positioning of sub either direction from its original position.

- · Start IDs written within 10 seconds from the end of the tape may be difficult or impossible to move.
 - Existing skip IDs or an end ID cannot be moved.

Erasing Sub Codes



- Set ID MODE to the position for the type of ID you want to erase.
 - To erase a start ID or skip ID

In the case of a skip ID, if the SKIP ID indicator has been turned off by the time you press ERASE, the deck will still erase the skip ID. "(ERASE)" appears in the display as the deck rewinds to the beginning of the ID, then "ID Press FRASE when the ID you want to erase ERASE" appears as the deck erases the ID. appears in the display.

To erase an end ID

Press ERASE.

"II) ERASE" appears while the deck erases the end "(ERASE)" appears in the display while the deck fast-forwards to the beginning of the end ID, then

- It takes 9 seconds to crase a start ID.
- It takes 9 seconds to erase an end ID. It takes 1 second to erase a skip ID.
- Program numbers are erased together with start

Just press the ERASE button. The tape is rewound, and * You can erase an ID even when it is not displayed the first ID detected is erased.

See page 10. ond ID

To You can use the End Search function to locate the

A skip ID written at the same position of a start ID is erased when the start ID is erased. Note

Renumbering the Program **Numbers Automatically** Renumbering)

beginning of the tape and assigns a new program number to each one starting with 1. Use Renumbering Renumbering searches for each start ID from the function in the following cases:

- When you've added a start ID while playing the tape When a program number is missing due to an erased start ID
 - · When you began recording from the middle of the tape and wrote a program number that already exists, or when one of the the start IDs has no program number.



ID RENUMBER

The deck then starts searching for each successive start flashing and "ID WRITE" appears in the display for a few seconds as the deck begins rewriting the program The RENUMBER indicator flashes in the display and the tape is automatically rewound to its beginning. Press ID RENUMBER while the deck is stopped or starting with 1. The RENUMBER indicator stops ID writing a new program number for each one

After renumbering is finished, the deck rewinds the tape automatically to its beginning, then stops. numbers.

You can specify the first program number to be assigned to the first track For details, see "Menu Operations" ("FIRST(PGM NO.)") on page 20.

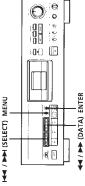
Renumbering function may not function correctly when:

- A blank section exists on the tape.
- The interval between two start IDs is less than 18 seconds (36 seconds in long-play mode). · A start ID exists within 10 seconds from the end of the

Menu Operations

You can make various settings and examine internal Settings made through menu are memorized even conditions of the deck through menu operations when the deck is turned off.

You can do menu operations only when the deck is empty, stopped or paused.



Making menu settings

Press MENU repeatedly until "--MENU--" appears in the display. 2 Press ►► / ▶► (SELECT) repeatedly to select the

Press ◆◆/▶◆ (DATA) repeatedly to select the parameter. m

The selected parameter flashes.

The selected setting lights up. Press ENTER.

The deck becomes ready for operation 5 Press MENU again.

Menu descriptions

including their settings or setting range, factory setting, A brief explanation is given below for each menu, and reference pages.

SET ID6

when recording the analog signal or the IEC-958 digital Selects the copy information to be written on the tape signal for broadcasting studio use input from the DIGITAL COAXIAL IN jack.

Settings: 00 (copying permitted), 10 (copying prohibited), 11 (one generation copy

Factory setting: 00 Reference page: 5

REC MUTE (RECord MUTing duration)
Sets the duration of the sound-muted section created Setting range: 0.5 to 9.5 seconds (in units of 0.5 between tracks by the Record Muting function.

second)

Factory setting: 4 seconds Reference page: 12

L-SY TH (Level-SYnc Threshold)

Sets the reference input level for automatic writing of start IDs.

Setting range: -12 to -60 dB (in units of 1 dB) Factory setting: -45 dB

L-SY BK (Level-SYnc Blank time)

Reference pages: 6, 15, 20

Sets the length of time that the input signal must remain below the reference level before automatic writing of start IDs begin.

Setting range: 1 to 10 seconds (in units of 1

second)

Factory setting: 3 seconds Reference pages: 6, 15, 20

IEC S-ID (IEC Start-ID)

detected and written on the tape when recording from a DAT deck connected to the DIGITAL COAXIAL or Specifies if start IDs (or skip IDs) are automatically OPTICAL IN jack.

automatically detected and written), Settings: on (start IDs (or skip IDs) are

- (writing of the start IDs (or skip IDs) is determined by the settings of the L-SY

TH and L-SY BK menus) Factory setting: on

Reference pages: 6, 15, 20

IEC CD-Q (IEC CD-Q code)

whenever a Q code defined by the user's bits on the CD is detected while recording from a CD player connected to the DIGITAL COAXIAL or OPTICAL IN Specifies if start IDs are written automatically

Settings: on (a Q code is detected and written as a -- (writing of the start IDs is determined by the settings of the L-SY TH and L-SY start ID automatically),

Reference pages: 6, 15, 20

(Continued)

SKIPPLAY (SKIP PLAY)

Menu Operations

Selects if the deck detects skip IDs and fast-forwards the tape to the next start ID during playback.

- (the deck does not detect skip IDs) Settings: on (the deck detects skip IDs),

Reference page: 14 Factory setting:

Automatic writing of start IDs and menu settings during digital recording

source is connected, the signal format, and the category carried out according to the jack to which the program The automatic detection and writing of start IDs are rode of the signal, as shown in the table below.

A: Start IDs are detected and written automatically.

B: Q codes are detected and and and an arrange.

Q codes are detected and written as start IDs automatically.

C: The writing of start IDs is determined by the settings of the L-SY TH and L-SY BK monus.

Menu settings

Jack	COAXIAL	COA	COAXIAL/OPTICAL	IICAL
Signal format	Broadcast studio use	Co	Consumer use	asn
Category		DAT	8	CD Others
IEC S-ID on	A*	⋖		Ü
IEC-S-ID	O.	U	ı	O
IEC CD-Q on		1	8	C
IEC CD-0	1	1	U	Ü

 * Only when connected to the PCM-2300, PCM-2700, or PCM-2700A

P-TMDISP (Program TiMe DISPlay)

Specifies if the track playing time is displayed when the MODE button is pressed.

Settings: on (the track playing time is displayed), -- (the track playing time is not displayed)

Factory setting: on Reference page: 12

FIRST(PGM NO.) (FIRST ProGraM NO.)

Specifies the first program number to be assigned to the first track when recording from the beginning of the tape or using the Renumbering function.

Setting range: 1 to 99

Reference pages: 16, 18

Displays the copy information of the tape currently TAPEID6 (ID6 on TAPE) inserted.

prohibited), 11 (one generation copy Indications: 00 (copying permitted), 10 (copying

Reference page: 5

DIF (Digital Input signal Format)

Shows the format of the digital input signal from the menu while the deck is in recording pause or while connecter selected by the INPUT switch. Use this you are monitoring the program source.

"ANALOG" or no digital signal is Displays: -- (the INPUT switch is set to

PRO (signal for broadcast studio use is NON AU (non-audio-format signal is input; not recordable on this deck),

DAT (signal is input from a DAT deck for consumer use),

CD (signal is input from a CD player for consumer use),

MD (signal is input from a MD deck for consumer use),

GEN (signal is input from a BS tuner OTHER (signal is input from other

components than described above) Reference page: 6

HOUR (HOURs meter)

Display range: 0 to 9999 hours (in units of 1 hour) Displays the total drum operating time for periodic check-up.

INIT SET (INITial SETting)

Settings: on (resets the menu settings),
-- (does not reset the menu settings) Resets all the menu settings to factory settings.

Factory setting:

20€

19^{EN}

SECTION 3 DISASSEMBLY

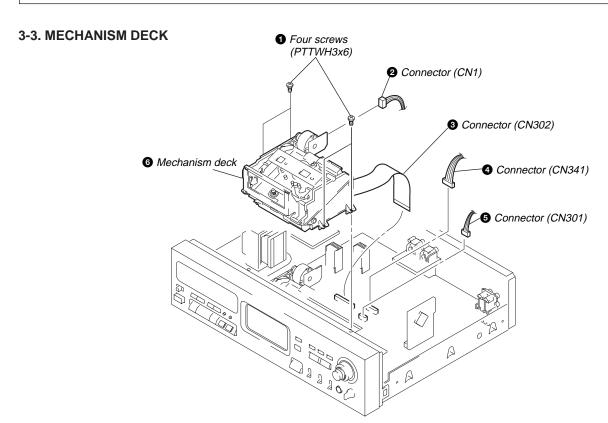
Note: Follow the disassembly procedure in the numerical order given.

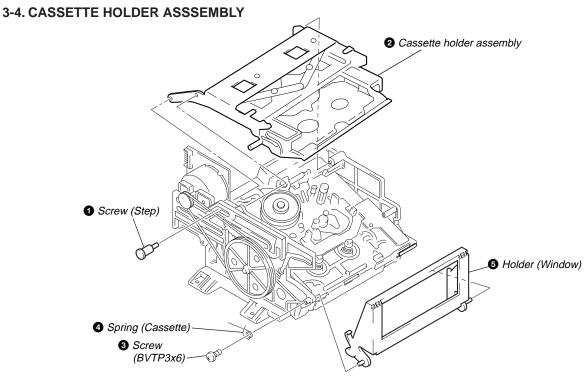
3-1. CASE

Unscrew the four case attachment screws and remove the case.

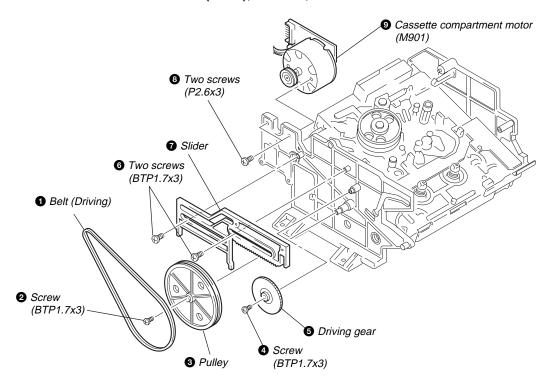
3-2. CASSETTE WINDOW

- Press the OPEN/CLOSE switch to effect LOADING OUT STATE (if power is not supplied) rotate the pulley in the left side of the Mechanism Deck counterclockwise.)
- 2 Remove the cassette by lifting the window up.

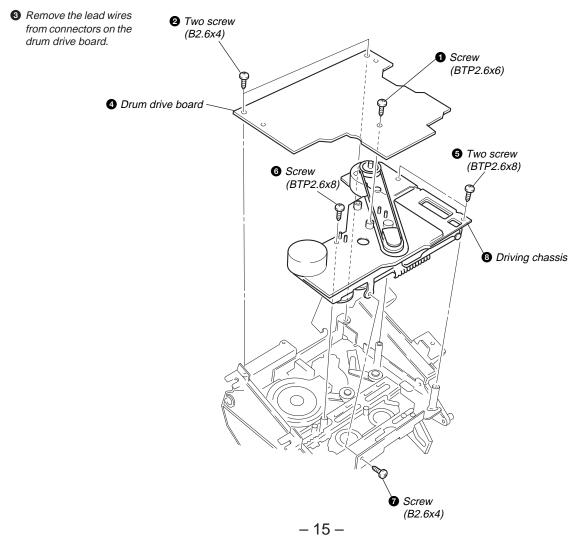




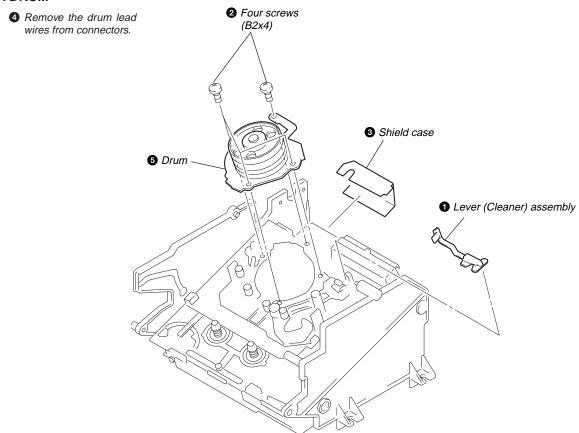
3-5. CASSETTE COMPARTMENT MOTOR (M901), PULLEY, DRIVING GEAR AND SLIDER



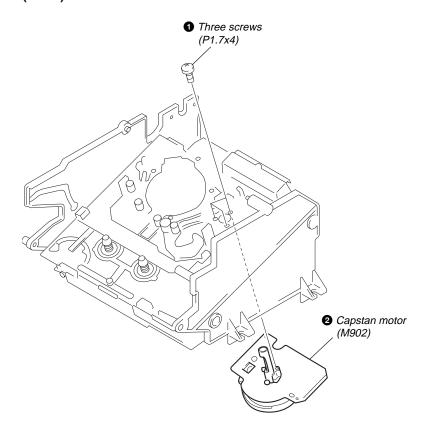
3-6. DRUM DRIVE BOARD AND DRIVING CHASSIS



3-7. DRUM



3-8. CAPSTAN MOTOR (M902)



SECTION 4 ADJUSTMENTS

4-1. Notes When Making Adjustments

- 1. Adjustments should be performed in the order listed.
- 2. Use the following test tapes:

TY-7111X (8-909-823-00)	Level
TY-7252 (8-909-822-00)	Tracking
TY-7551 (8-909-814-00)	Functions
TY-30B (8-892-358-00)	Blank

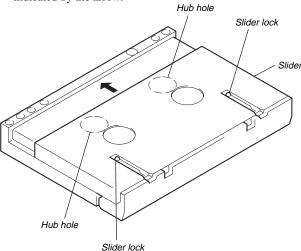
Use the following torque meter:

TW-7131 (8-909-708-71) FWD

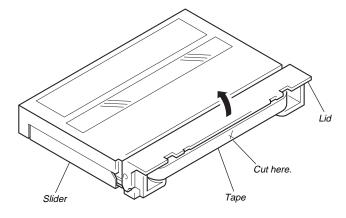
Switches and controls should be set as follows unless otherwise specified.

ID MODE switch : START
REC MODE switch : LONG
INPUT switch : OPT
SBM switch : OFF
REC LEVEL control : Min.
PHONE LEVEL control : Min.

- 4. Creating an end sensor cassette
 - Press the tape slider lock and move the slider in the direction indicated by the arrow.



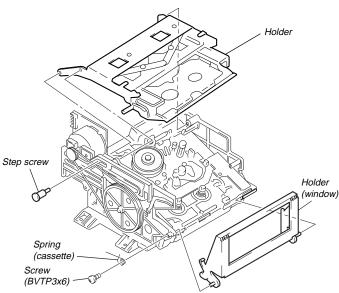
(2) Open the lid and cut the tape.



(3) Turn the hubs until the tape is completely inside the cassette (both T and S sides).

The end sensor cassette for end sensor adjustments is now ready for use.

- 5. Cleaning of the Revolving Drum
 - (1) Fold a cleaning piece (2-034-697-00) or a knit cloth into 4 or more files, slightly impregnate it with a head cleaning fluid (9-919-573-00), and softly touch the drum with it and manually rotate the drum slowly counterclockwise by 2 to 3 turns for cleaning.
 - (2) At that time, be careful not to move the cleaning piece vertically to the head tip. Otherwise, the head tip may probably be damaged.
- 6. Be careful not to move RV1 to RV2 on the RF AMP board in the mechanism assembly
- 7. To adjust the tape path and guides, remove the holder assembly as shown in the diagram and use the DAT cassette holder jig (J-8000-002-A). This will make it easier to perform the adjustments.
- First turning the pulley counterclockwise to put it in loading out status will make removal and reattachment of the holder assembly easier.
- To perform adjustments, turn the pulley clockwise to put it in loading in status, load the cassette tape and set the IN switch to the ON position.



8. Test mode

To set the test mode, short-circuit JW091 (X TEST) and ground of the main board. (At this time, the dB display of the fluorescent display level meter will blink.)

Perform the following adjustments in the test mode.

- FWD torque adjustment
- FWD back tension check
- Tape path fine adjustments
- DPG adjustment
- AGC voltage check
- · End sensor check
- To reset the test mode (main), disconnect the wire shorting JW091 (X TEST) and ground. After completion of adjusting, be sure to reset the test mode (main).

- Check the following items for correct tape speed, after completion of adjusting.
- (1)Set the REC MODE switch to 48k and check for normal recording and playback. (x1)
- (2)Set the REC MODE switch to LONG and check for normal recording and playback. (x0.5)
- (3) With QUE ($\triangleright+\triangleright$) or REVIEW ($\triangleright+\blacktriangleleft$), check that qurrr, qurrr sound is heard. (x3, x8)
- (4) Check that correct time is displayed after FF (►►) or REV (◄◄). (x16)
- (5)Check that AMS (►►, ►►) is normal.

4-2. ELECTRICAL ADJUSTMENTS

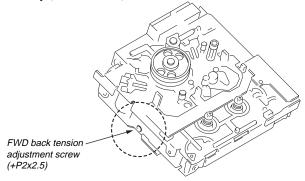
FWD Torque Adjustment

Procedure:

- 1. Set the test mode (main) and load the FWD torque meter TW-7131 (8-909-708-71).
- Set the PLAY (►) mode. "TORQUE" will be displayed on the fluorescent indicator tube.
- 3. Adjust RV451 so that the minimum value of FWD take up torque (take-up side rewinding torque) is between 9-10g cm (0.13-0.14 oz inch).
 - Also, make sure that the maximum reading does not exceed $15g \cdot$ cm (does not exceed $0.21 \text{ oz} \cdot$ inch).
- Confirm that the value indicated by the torque meter is maintained for one full cycle.

FWD Back Tension Check and Adjustment Check procedure:

- 1. Put the set into the test mode (main servo) and load the FWD torque meter TW-7131 (8-909-708-71).
- 2. Put the set into the PLAY () mode.
- 3. Turn the FWD back tension adjustment screw locked on the mechanical deck side so that the minimum value of FWD back tension torque (supply side) is between 4.5 to 7.5g cm- (0.06-0.1 oz inch).
 - Also, make sure that the maximum reading does not exceed 8g \bullet cm (does not exceed 0.11 oz \bullet inch).
 - After completion of adjusting, be sure to apply screw lock.
- 4. Confirm that value indicated by the torque meter is maintained for one full cycle.
- 5. If the specified values are not satisfied, replace the lever (BT) assembly (X-3363-024-1).



To tighten (clockwise) - back tension becomes larger. to loosen (counterclockwise)-back tension becomes smaller.

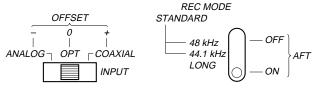
Tape Path Fine Adjustment (x1.5 FWD Mode)

Perform the following adjustment when the drum has been replaced.

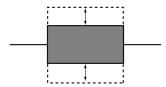
Procedure:

- 1. Connect an oscilloscope CH-1 to JW183 (PBRF) and CH-2 to JW092 (SWP) on the main board.
- 2. Set the test mode (main) and load test tape TY-7252 (8-909-822-00)
- 3. Press the AMS (►►) key. "DPG" will be displayed on the fluorescent indicator tube.

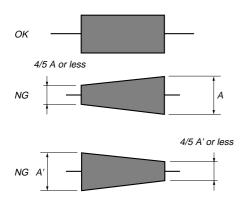
Each part of switches on Test Mode.



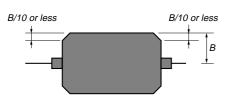
4. With the REC MODE switch set to 48kHz (ATF: OFF) and the INPUT switch set to COAXIAL or ANALOG (OFFSET: + or -), fine adjust the S1 and T1 guides so that the oscilloscope RF signal waveform remains the same when high-low is repeated.



- * Finish the adjustment by screwing in.
- Check the RF signal waveform with the REC MODE switch set to LONG (ATF: ON) and the INPUT switch set to COAXIAL or ANALOG (OFFSET: + or-).



- Check the RF signalwaveform with the REC MODE switch set to LONG (ATF: ON) and the INPUT switch set to OPT (OFFSET:
- (1) Confirm that the RF signal waveform peak value (B) is 60mV or more.
- (2) Confirm that the undershoot level of the RF signal waveform's flat portion is within 10%.



7. When the measured values are not within the above tolerance repeat items 3 to 6 above.

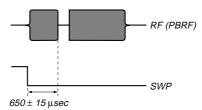
Adjustment Point: Mechanism assembly

DPG Adjustment

Perform the following adjustment without fail when the drum has been replaced.

Procedure:

- Connect oscilloscope CH-1 to JW183 (PBRF) and CH-2 to JW092 (SWP) on the main board. (Use CH-2 as the trigger. When the CH-2 signal is inverted, the trailing edge can be used for synchronization.)
- 2. Set the test mode (main) and load test tape TY-7252 (8-909-822-00)
- Set the REC MODE switch to LONG (ATF: ON) and the INPUT switch to OPT (OFFSET:0).
- Press the AMS (►►) key. "DPG" will be displayed on the fluorescent indicator tube.
- 5. Press the ◀ and ▶ keys as appropriate so that the gap between the oscilloscope SWP and RF signals become 650 ± 15μsec. (Hold the ◀ and ▶ keys down for more than 1 second to perform rough adjustment. Hold them down for approximately 0.2 seconds for fine adjustment, and the auto adjustment can be performed pressing PLAY (▶) key).

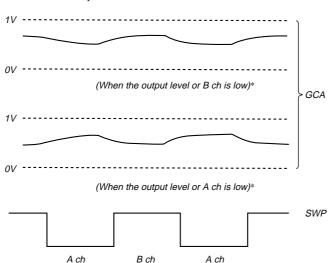


AGC Voltage Check

Perform this adjustment after cleaning the heads with a cleaning cassette.

Procedure:

- Connect oscilloscope CH-1 to JW247 (GCA: Gain Control Amp.) and CH-2 to JW092 (SWP) on the main board. (When the CH-2 signal is inverted, the trailing edge can be used for synchronization.)
- 2. Set the test mode (main) and load test tape TY-7111X (8-909-823.00)
- 3. Set the PLAY (▶) mode and check that the GCA waveform on the oscilloscope is as follows



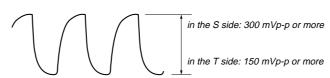
* Slightly changes depending on the state of the head. NG if the GCA waveform is 1V or more or equal to the ground level.

End Sensor Check

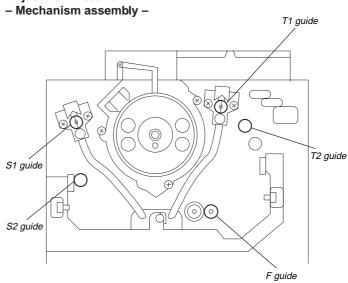
Perform the following adjustment when the holder has been removed or part of the mechanism deck section replaced.

Procedure:

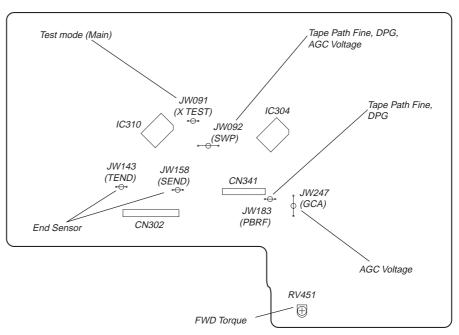
- Connect an oscilloscope to the JW158 (SEND: in the S side) and JW143 (TEND: in the T side) of the main board.
- Set the test mode (main), mount an end sensor cassette and effect the STOP (■) mode.
- 3. Check that p-p values of waveform of the oscilloscope satisfy the following.



Adjustment Location:

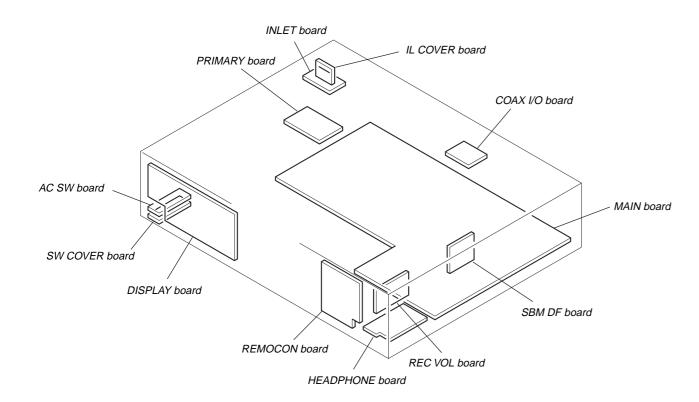


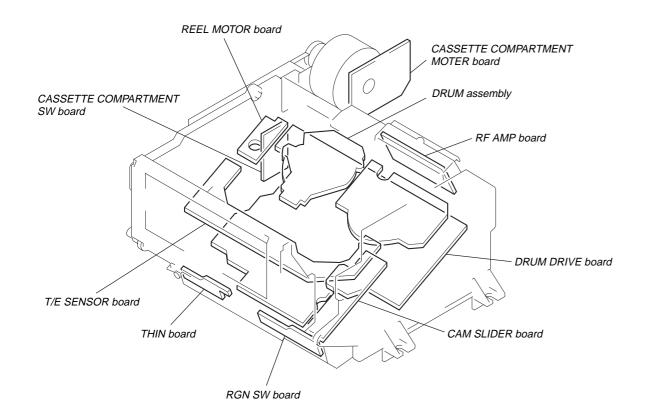
[MAIN BOARD] (Component side)



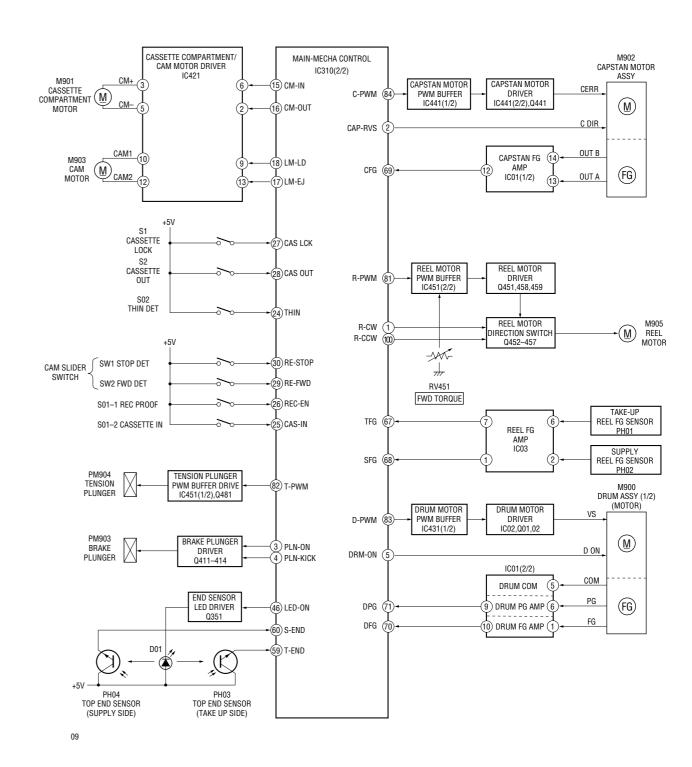
SECTION 5 DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION

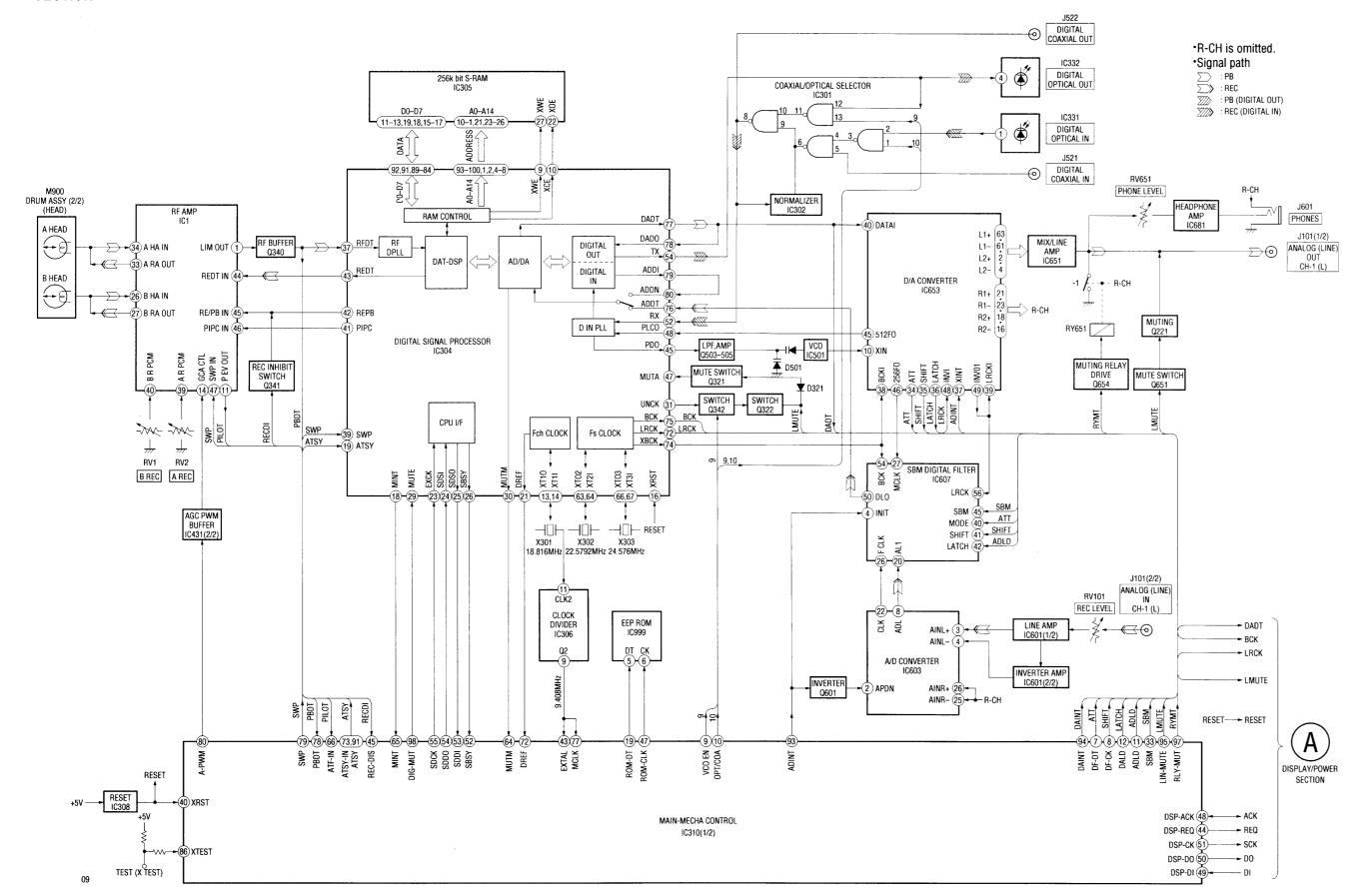




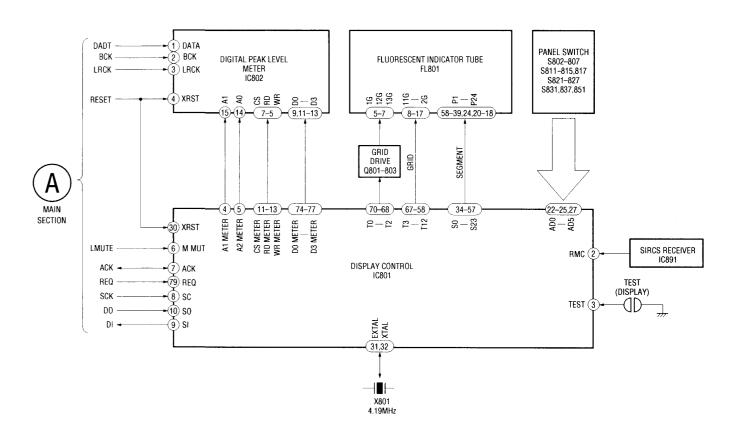
5-2. BLOCK DIAGRAMS — MD SECTION —

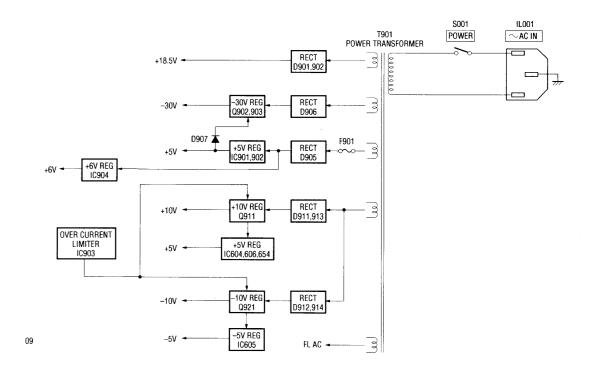


- MAIN SECTION -

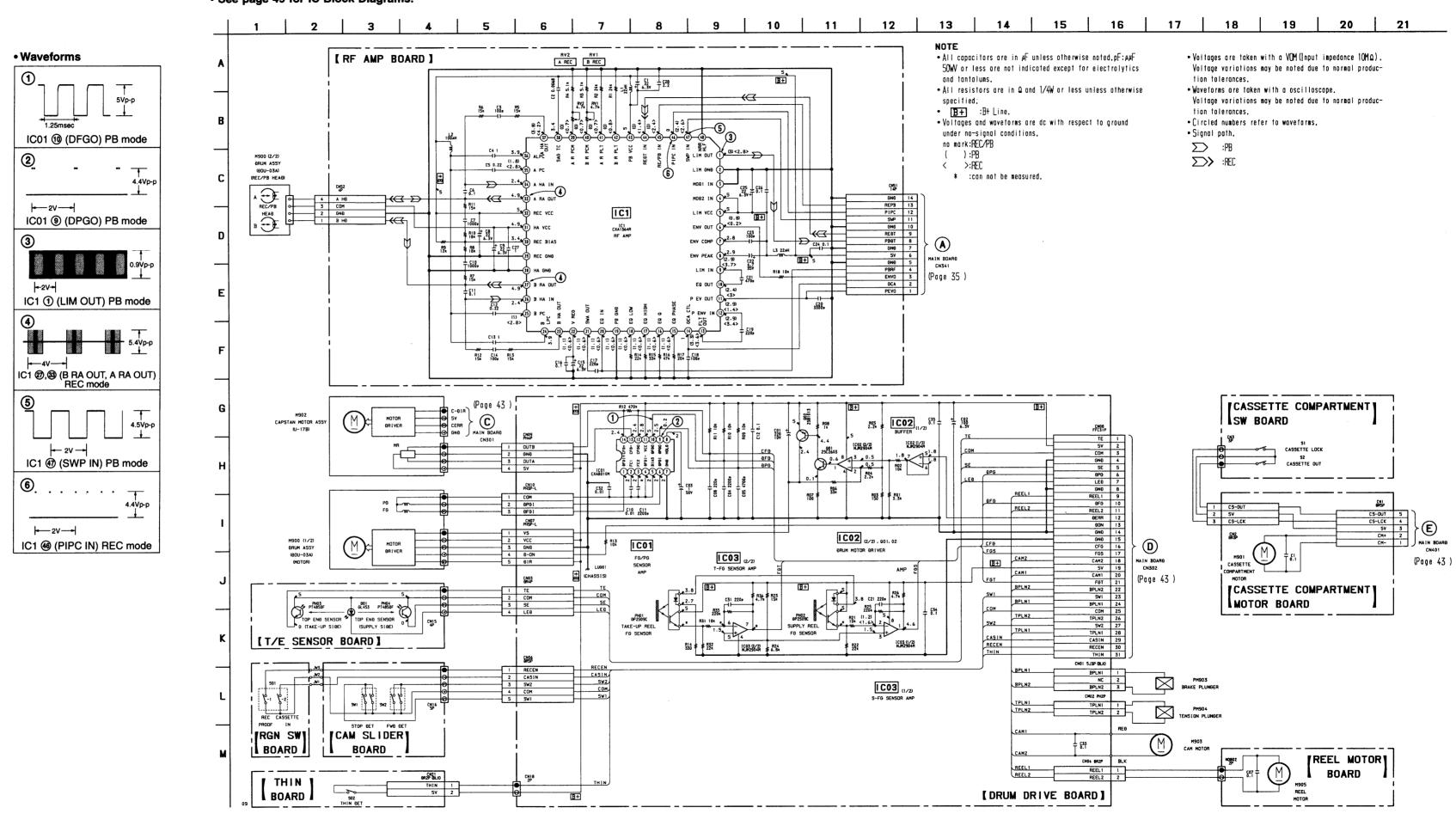


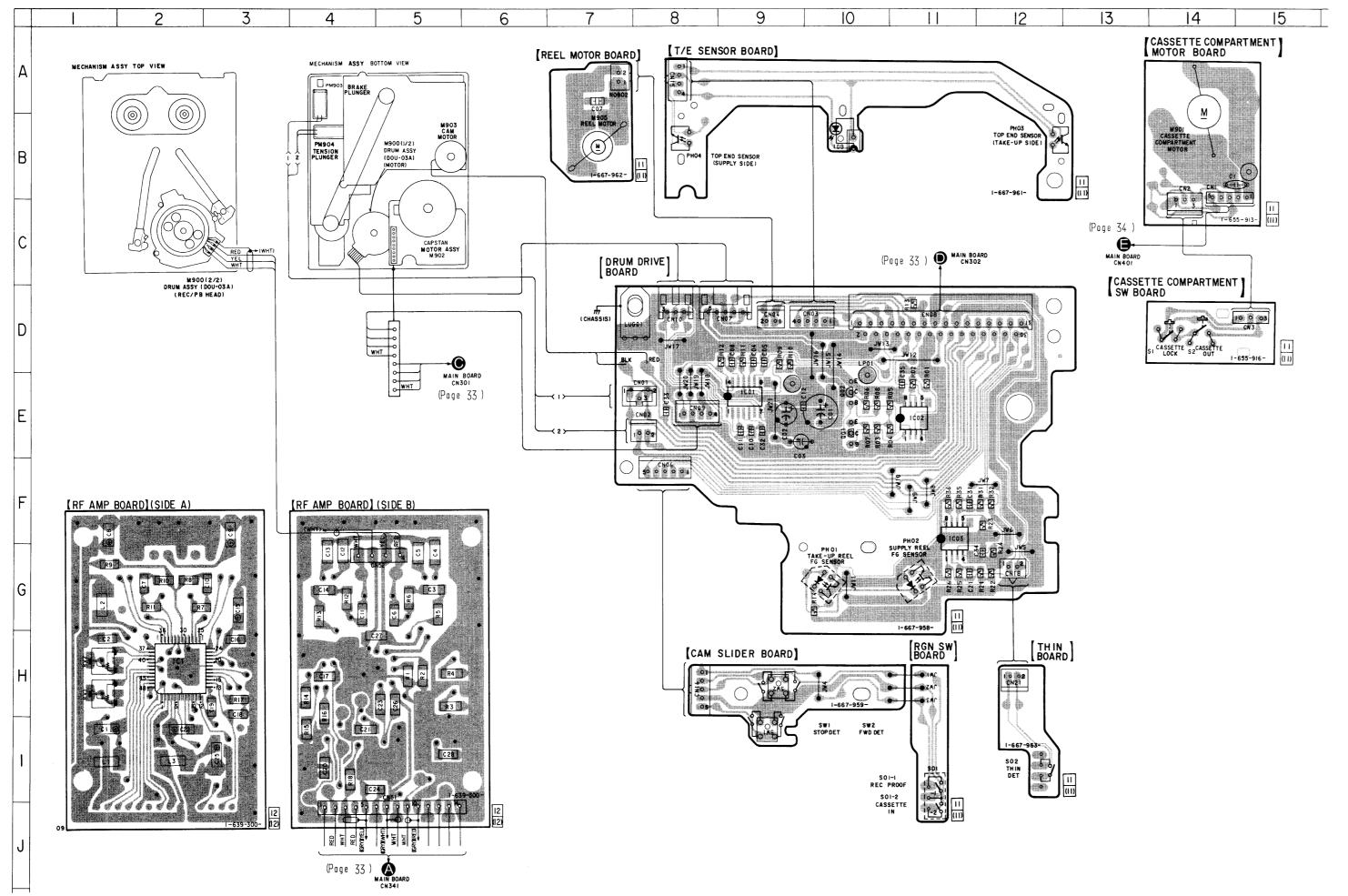
- DISPLAY/POWER SECTION -





5-3. SCHEMATIC DIAGRAM — MD SECTION — • See page 49 for IC Block Diagrams.





Semiconductor Location

Ref. No.	Location
D01	B-10
IC1	H-2
IC01	E-9
IC02	E-11
IC03	F-11
PH01	G-10
PH02	G-11
PH03	B-12
PH04	B-8
Q01	E-10
Q02	E-10

• o----: parts extracted from the component side.

 Through hole.
 Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

5-5. PRINTED WIRING BOARD — MAIN SECTION —

- See page 21 for Circuit Boards Location.
- See page 38, 41 Schematic Diagrams.

Semiconductor Location

	··-	T	
Ref. No.	Location	Ref. No.	Location
D101 D102 D103 D104 D151 D152 D153 D154 D321 D331 D333 D411 D412 D413 D421 D422 D501 D651 D901 D651 D902 D903 D904 D905 D906 D907 D908 D911 D912 D913 D914 IC301 IC302 IC304 IC305 IC306 IC308 IC310	I-6 J-6 J-6 I-6 I-7 I-5 I-5 I-5 I-5 I-5 I-5 I-5 I-20 I-20 I-20 I-20 I-20 I-20 I-20 I-20	IC604 IC605 IC606 IC607 IC651 IC652 IC653 IC654 IC654 IC901 IC902 IC903 IC904 IC999 Q221 Q271 Q321 Q321 Q321 Q341 Q342 Q351 Q411 Q412 Q413 Q413 Q414 Q451 Q452 Q453 Q455 Q456 Q457 Q458 Q459 Q481	K-8 J-7 G-7 K-13 C-7 C-6 E-6 D-7 J-2 F-20 D-18 A-17 G-19 G-17 B-8 B-7 D-13 E-13 G-13 G-13 G-15 G-20 H-20 H-20 H-20 H-20 K-9 L-10 J-10 K-10 J-10 L-10 L-10 L-10 L-9
D902 D903 D904 D905 D906 D907 D908 D911 D912 D913 D914 IC301 IC302 IC304 IC305	B-20 B-20 B-20 E-20 C-20 D-18 D-19 B-19 C-19 B-14 B-15 E-11 E-9	Q340 Q341 Q342 Q351 Q411 Q412 Q413 Q414 Q441 Q451 Q452 Q453 Q455 Q456 Q456 Q457	G-11 G-13 E-13 G-15 G-20 H-20 H-20 K-9 L-10 J-10 K-10 J-10 J-10 J-10
IC308	G-11	Q459	L-10

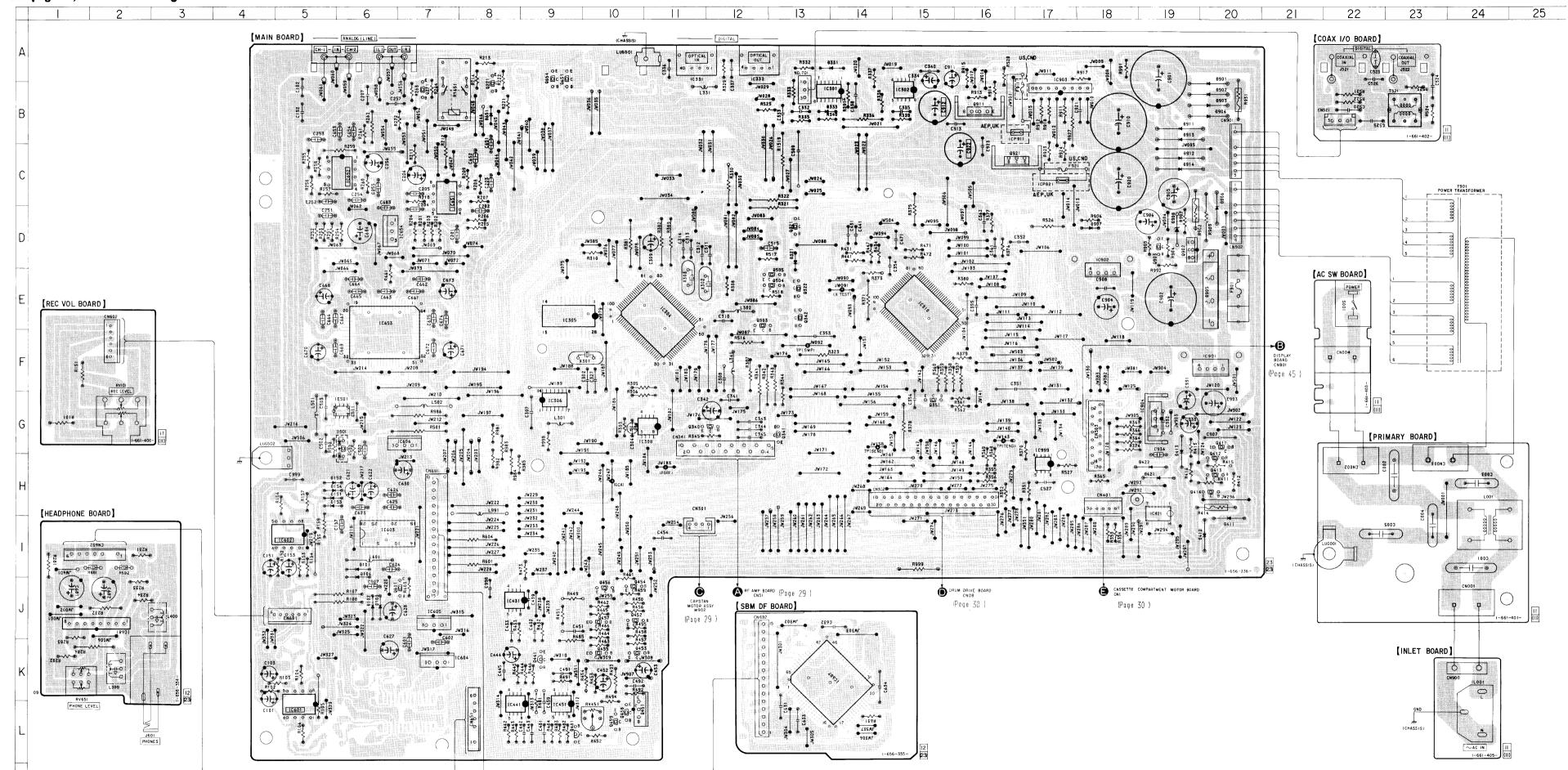
Vote:

- o : parts extracted from the component side.
- A : internal component.
- Rattern from the side which enables seeing.

- 32 -

Abbreviation

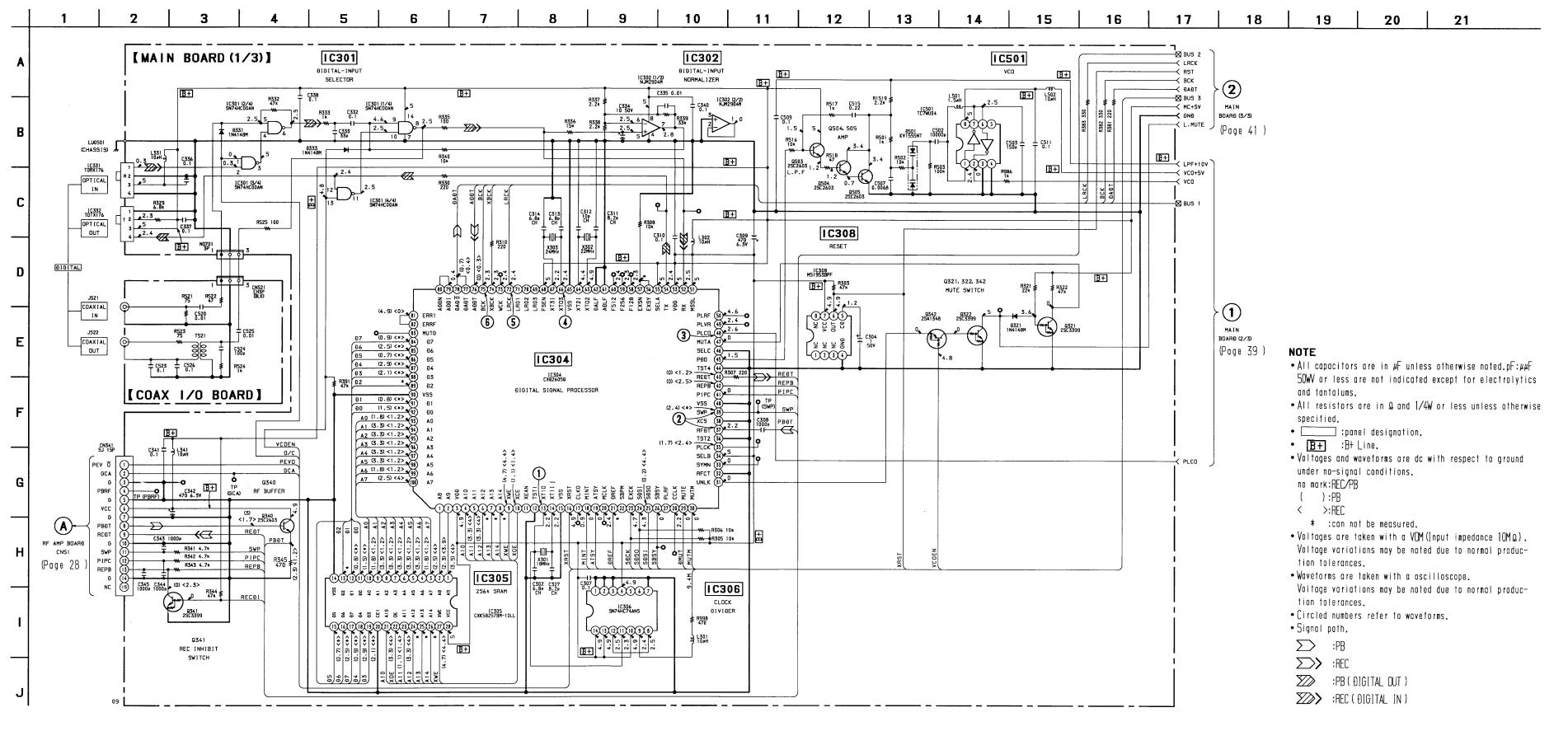
CND: Canadian model.

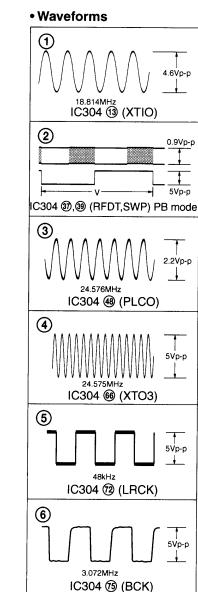


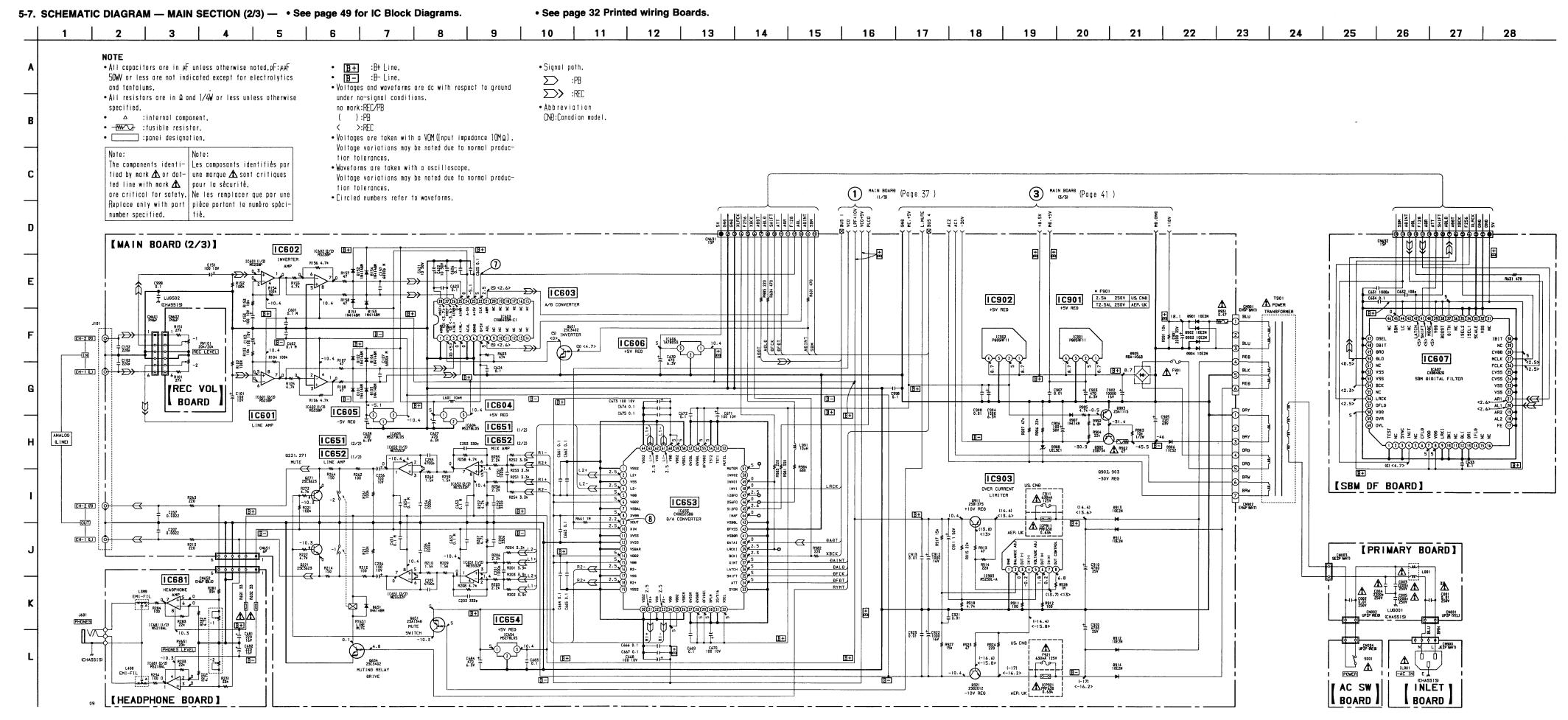
- 34 -

- 33 -

- See page 49 for IC Block Diagrams.
- See page 53 for IC Pin Functions.

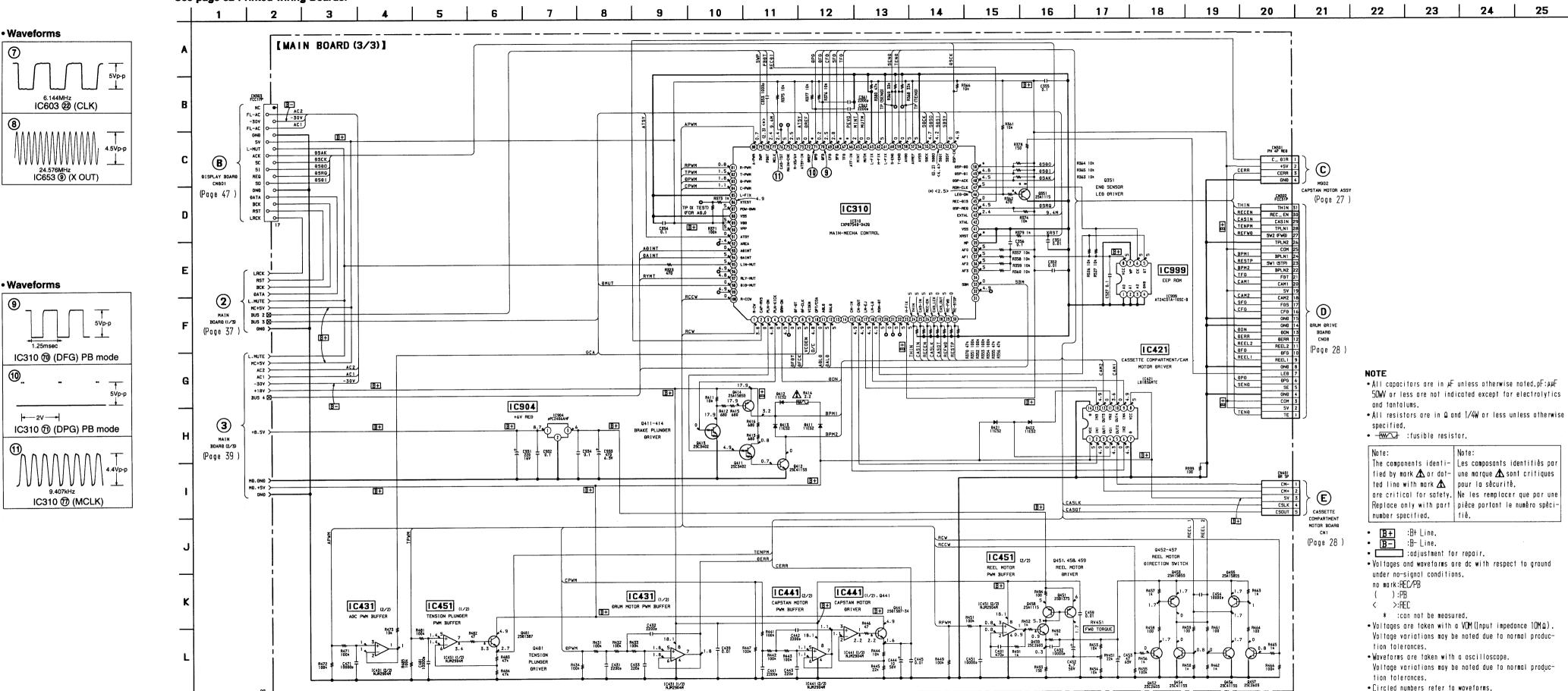






5-8. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —

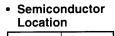
- See page 49 for IC Block Diagrams.
- See page 55 for IC Pin Functions.
- See page 32 Printed wiring Boards.



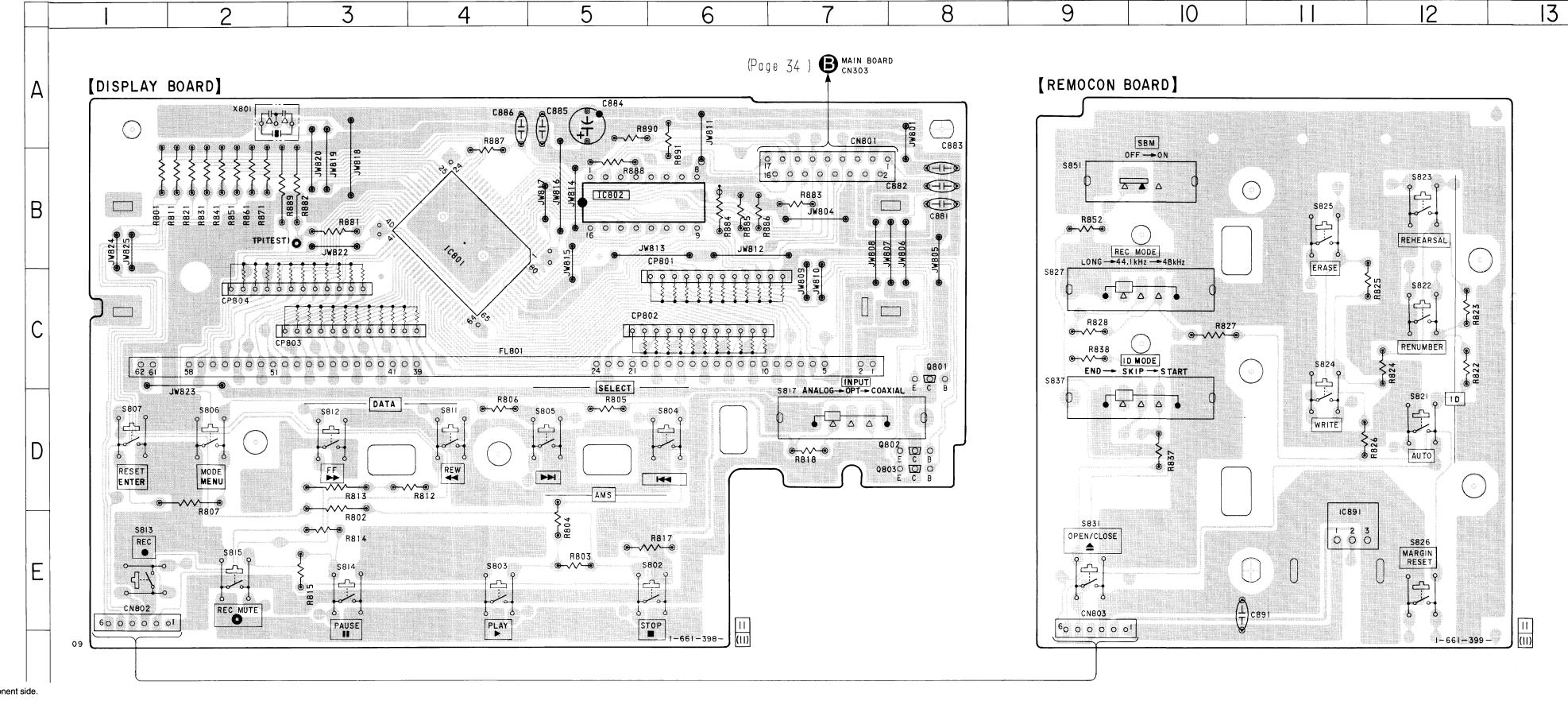
PCM-R300

5-9. PRINTED WIRING BOARD — DISPLAY SECTION —

See page 21 for Circuit Boards Location.



Ref. No.	Location
IC801 IC802 IC891	B-4 B-5 E-11
Q801 Q802 Q803	C-8 D-8 D-8



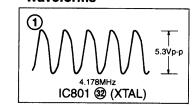
Note:

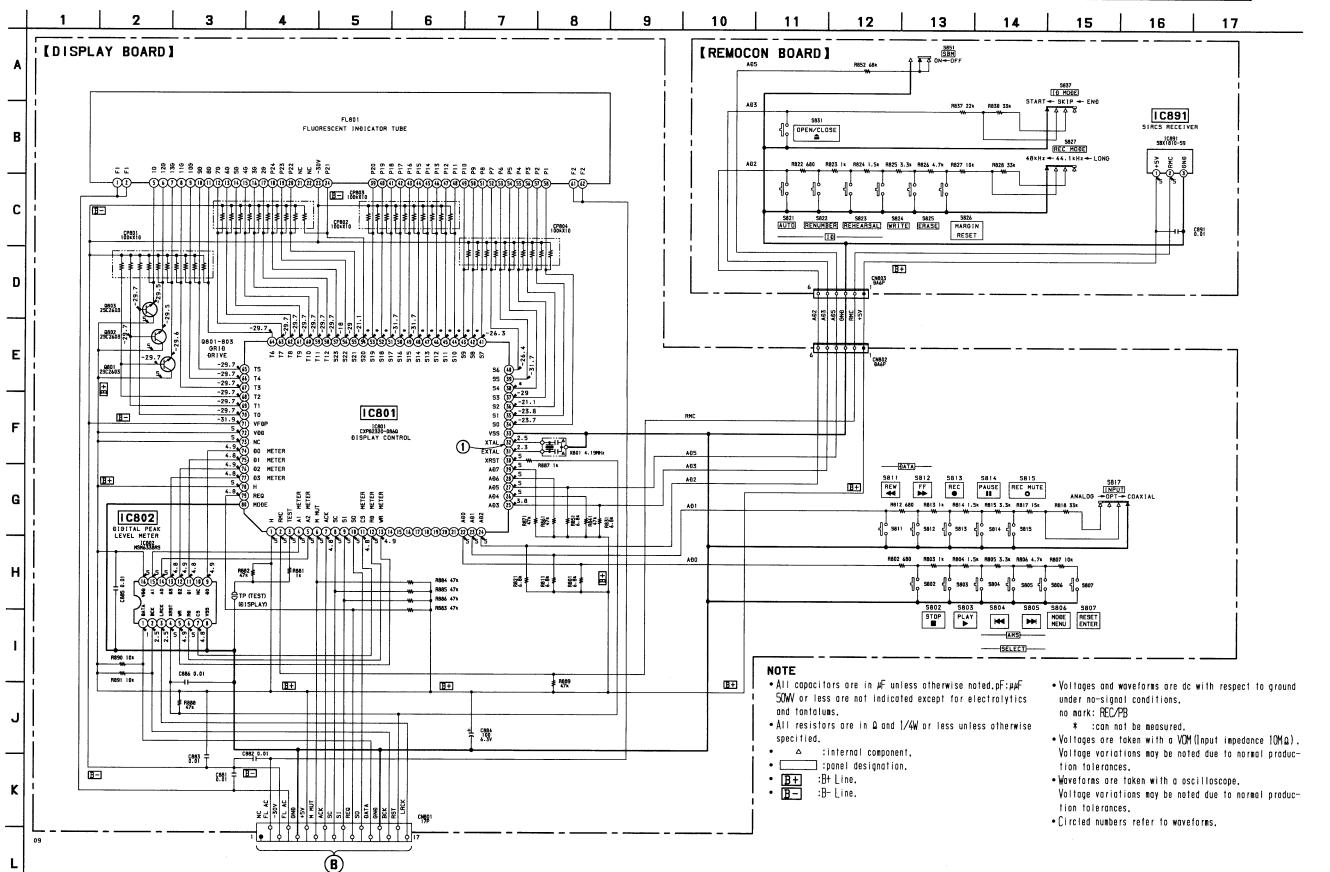
• o- : parts extracted from the component side.

 \(\Delta \)
 : internal component.

• Masses: Pattern from the side which enables seeing.

- 5-10. SCHEMATIC DIAGRAM DISPLAY SECTION • See page 52 for IC Block Diagrams.
 - See page 58 for IC Pin Functions.





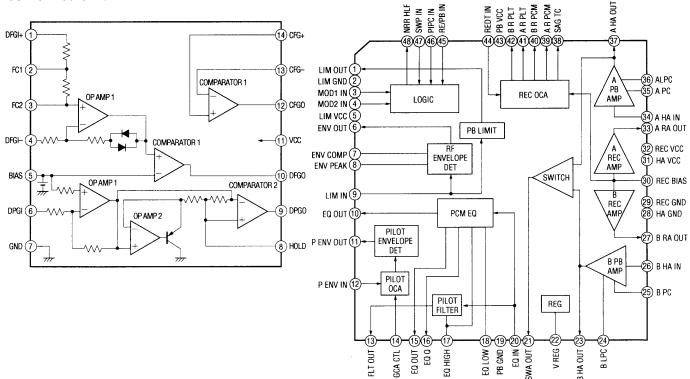
MAIN BOARD (Page 41)

- 47 -

5-11. IC BLOCK DIAGRAMS

MD Section

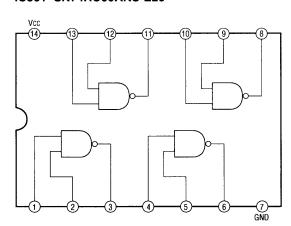
IC01 CXA8010M-E1



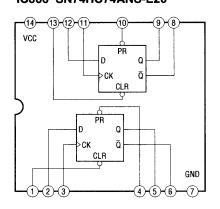
IC1 CXA1364R

MAIN Section

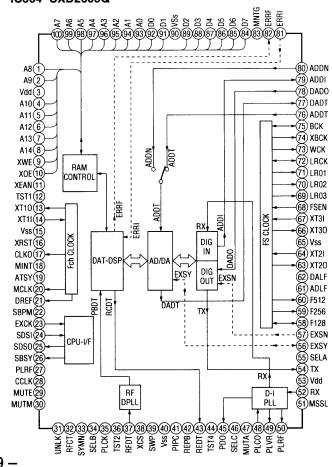
IC301 SN74HC00ANS-E20



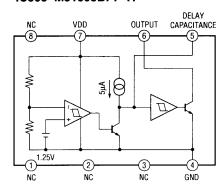
IC306 SN74HC74ANS-E20



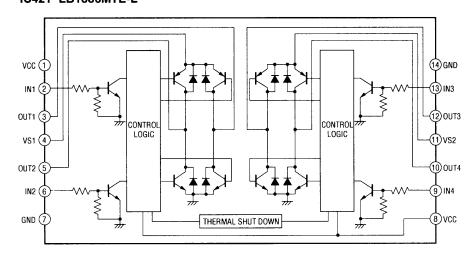
IC304 CXD2605Q



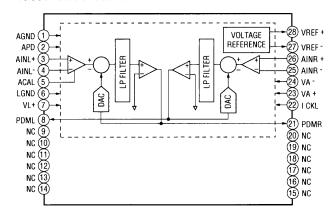
IC308 M51953BPF-TP



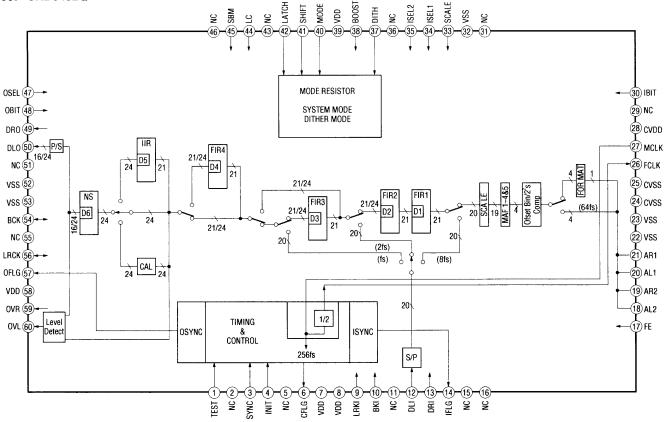
IC421 LB1836MTE-L



IC603 CXD8493M-E1

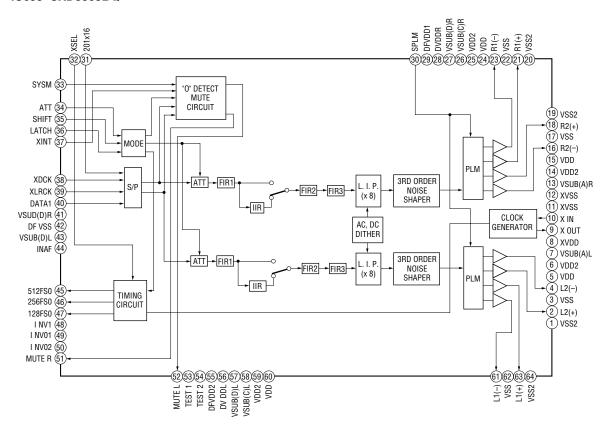


IC607 CXD8482Q

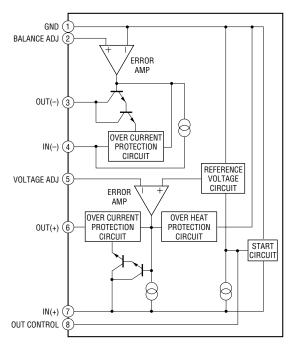


- 50 **-**

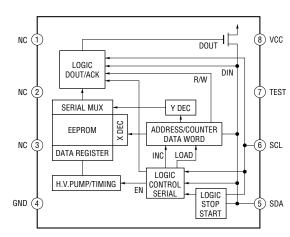
IC653 CXD8505BQ



IC903 M5230L-A

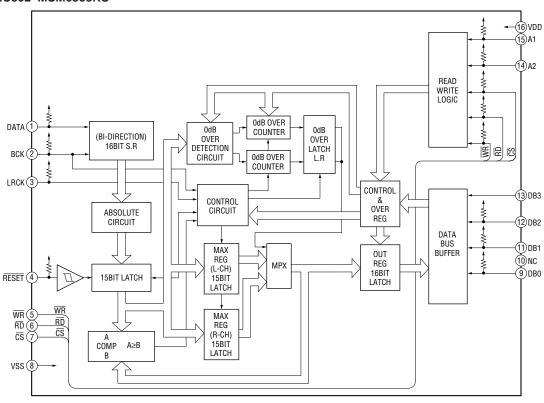


IC999 AT24C01A-10SC-TP-B



• DISPLAY Section

IC802 MSM6338RS



5-12. IC PIN FUNCTIONS

• IC304 Digital Signal Processor (CXD2605Q)

Pin No	Pin Name	I/O	Function
1, 2	A8, A9	О	External RAM address output
3	VDD		Power supply (+5V)
4 to 8	A10 to A14	О	External RAM address output
9	XWE	О	External RAM write enable signal output
10	XCE	О	External RAM output enable signal output
11	XEAN	О	Not used
12	TST1	I	Test pin (Fixed at "L")
13	XT1O	О	Crystal oscillation circuit 1 output (18 MHz)
14	XT1I	I	Crystal oscillation circuit 1 input (18 MHz)
15	VSS	_	Ground
16	XRST	I	Reset input "L": Reset
17	CLKO	О	Not used
18	MINT	О	Control byte (1) bit 1="L": Q code decode (Detecting between songs) output, "H": BCK clock output by RX-PLL
19	ATSY	I	ATF sync signal input
20	MCLK	0	Not used
21	DREF	0	SBSY period, duty 50 signal output
22	SBPM	0	Not used
23	EXCK	I	Data transfer clock input from main, mecha control
24	SDSI	I	Serial data input from main, mecha control
25	SDSO	0	Serial data output to main, mecha control
26	SBSY	0	Frame sync signal output for transferring data to main, mecha control
27	PLRF	0	Not used
28	CCLK	0	Not used
29	MUTE	I	Mute input "H": Mute Not mute REC monitor sound
30	MUTM	0	Mute monitor "H": Indicates muting occurs
31	UNLK	0	RX-PLL lock monitor signal output "L": Indicates locking occurs
32	RFCT	I	Playback RF signal control ("L": Valid, "H": Invalid) (Fixed at "L")
33	SYMN	0	Outputs monitor signal for C1 check results corresponding to RF
34	SELB	I	Test pin (Fixed at "H")
35	PLCK	0	Not used
36	TST2	I	Test pin (Fixed at "L")
37	RFDT	I	Playback RF signal input
38	XCS	I	Chip select input for data transfer with microprocessor "L": Transfer enable (Fixed at "L")
39	SWP	I	RF switching pulse "L": A track, "H": B track
40	VSS		Ground
41	PIPC	О	ATF pilot signal/discrimination signal output for record signal "H": Pilot signal
42	REPB	О	REC/PB discrimination signal output "H": REC
43	REDT	О	Record signal output
44	TST4	I	Test pin (Fixed at "L")
45	PDO	О	RX-PLL phase comparator output

• Abbreviation

PLL: Phase Locked Loop

Pin No	Pin Name	I/O	Function
46	SELC	I	Oscillation frequency select signal input (Fixed at "L")
47	MUTA	I	Mute input "H": Mute. Also mutes REC monitor sound
48	PLCO	I	RX-PLL external VCO clock input (512 fs as reference)
49	PLVR	О	Not used
50	PLRF	О	Not used
51	MSSL	I	Master mode/slave mode select "H": Master (Fixed at "H")
52	RX	I	Digital interface signal input
53	VDD		Power supply (+5V)
54	TX	О	Digital interface signal output
55	SELA	I	Test pin (Fixed at "H")
56	EXSY	I/O	
57	EXSN	I/O	External sync signal input/output
58	F128	I/O	
59	F256	О	Not used
60	F512	О	
61	ADLF	I	ADTT, ADDI, ADDN serial data LSB/MSB first select input "H": LSB first (Fixed at "L")
62	DALF	I	DADT, DADO serial data LSB/MSB first select input "H": LSB first (Fixed at "L")
63	XT2O		Crystal oscillation circuit 2 output (22 MHz)
64	XT2I	0	Crystal oscillation circuit 2 input (22 MHz)
65	VSS	I	Ground
66	XT3O		Crystal oscillation circuit 3 output (24 MHz)
67	XT3I	O	Crystal oscillation circuit 3 input (24 MHz)
68	FSEN		F128, BCK, LRCK input/output select input "H": Output (Fixed at "H")
69	LR03	O	Inverted signal of LRCK 16 BCK delay output (Not used)
70	LR02		inverted signal of ERCR to BCR delay output (Not used)
70	LR01	0	Not used
72	LRCK	I/O	fs/2 fs (At 2 X speed) signal input/output
73	WCK	0	Not used
74	XBCK	0	Outputs inverted signal of BCK
75	BCK	I/O	64 fs/128 fs (At 2 X speed) signal input/output
76	ADDT	I	A/D serial data input
77	DADT	0	D/A serial data output
78	DADO	I	Audio data input for digital OUT
79	ADDI	0	Digital IN audio data output
80	ADDN	I	Digital IN audio data input
81	ERRI	I	Validity flag data input for digital OUT
82	ERRF	0	DADT data compensation data/discrimination signal output "H": Compensation data
83	MUTG	0	Not used
84	D7	I/O	External RAM data input/output (MSB)
85 to 89	D6 to D2	I/O	External RAM data input/output
90	VSS		Ground
91	D1	I/O	External RAM data input/output
92	D0	I/O	External RAM data input/output (LSB)
	A0 to A7		* * * *
93 to 100	A0 to A7	0	External RAM address output

• IC310 Main, Mecha Control (CXP87540-042Q)

2 C. 3 Pl 4 Pl 5 D. 6 —	Z-CW ZAP-RVS ZLN-ON ZLN-KICK DRM-ON	0 0 0	Reel motor CW output "H": FWD direction Capstan direction control output "L": FWD, "H": RVS	
3 PI 4 PI 5 D 6 -	LN-ON LN-KICK		Capstan direction control output "L": FWD, "H": RVS	
4 PI 5 D 6 —	LN-KICK	О		
5 Di			Brake plunger ON control output	
6 _	DPM_ON	О	Brake plunger kick control output	
	ALIVI-OIN	О	Drum motor ON control output	
7 D	_	О	Not used	
	DF-DT	О	Communication line (Serial data) with Digital filter	
8 D	OF-CLK	О	Communication line (Shift clock) with Digital filter "L": shifted, "H": taken	
9 V	/COEN	О	VCO enable output "H": Active	
10 O	OPT/COA	О	Digital input switch output "H": coaxial, "L": optical	
11 A	ADLD	О	Load to Digital filter for A/D converter	
12 D.	OALD	О	Load to Digital filter for D/A converter	
13	_	_		
14 _		_	Not used	
	CM-IN	О	Cassette compartment motor rotation IN direction control output	
	CM-OUT	О	Cassette compartment motor rotation OUT direction control output	
17 L	.M-EJ	О	Loading motor rotation Eject direction control output	
	M-LD	О	Loading motor rotation Loading direction control output	
	OM-DT	О	Data output to EEP ROM	
20		_	1	
21 _		_	Not used	
22 _	_	_		
23 Н	I-FIX	I	Not used (Fixed at "H")	
24 TI	HIN	I	Detect kinds of tapes "H": normal tape, "L": Thin tape	
25 C.	CAS-IN	I	Cassette IN switch input	
	REC-EN	I	REC enable switch input	
	CAS LCK	I	Cassette compartment lock switch input	
	CAS OUT	I	Cassette compartment out switch input	
	E-FWD	I	Encoder SW2 input SW1 SW2 Position L L EJECT	
30 R	RE-STOP	I	Encoder SW1 input H L STOP L H FWD H STOP-FWD	
31 —	_		Not used (Open)	
32	_	О	Not used	
33 SI	BM	О	Super bit maping control output "H": SBM ON, "L": SBM OFF	
34	_	О	Not used	
35 to 38 A	AF3 to AF0	I	AF mode select	
39 M	Л Р	_	Not used (Connected to Ground)	
	K RST	I	System reset input "L": Active	

Pin No	Pin Name	I/O	Function
41	VSS		Ground
42	XTAL	О	System clock output (Open)
43	EXTAL	I	System clock input (9.408MHz)
44	DISP-REQ	О	Communication request output to display control "L": Active
45	REC-DIS	О	Record current control output "H": Record disable, "L": Record enable
46	LED-ON	О	End sensor ON control output "L": Active
47	ROM-CK	О	Clock output to EEPROM
48	DSP-ACK	I	Communication acknowledge input from display control "L": Active
49	DSP-DI	I	Serial data input from display control and EEPROM
50	DSP-DO	О	Serial data output to display control and EEPROM
51	DSP-CK	О	Serial clock output to display control and EEPROM
52	SBSY	I	SUB SYNC input from CXD2605Q (master)
53	SDDI	I	Serial data input from CXD2605Q
54	SDDO	О	Serial data output to CXD2605Q
55	SDCK	О	Serial clock output to CXD2605Q (for sub code interface)
56	AVSS	_	Ground for A/D port
57	AVREF	_	Reference voltage for A/D port (+5V)
58	AVDD	_	Power supply for A/D port (+5V)
59	T-END	I	T side end sensor input
60	S-END	I	S side end sensor input
61	L-FIX	I	Fixed at "L"
62	H-FIX	I	Fixed at "H"
63	L-FIX	I	Fixed at "L"
64	MUTM	I	Mute monitor input "H": Active
65	MINT	I	Q code decode value input "H": Between songs
66	ATF-IN	I	ATF pilot signal input (Analog input)
67	TFG	I	T side reel FG signal input
68	SFG	I	S side reel FG signal input
69	CFG	I	Capstan FG signal input
70	DFG	I	Drum FG signal input
71	DPG	I	Drum PG signal input
72	DREF	I	Drum reference signal input
73	ATSY-IN	I	DPG auto adjustment FRC signal input
74	R-X5/6V	I	Fixed at "H"
75	MAIN-CHK	О	Not used
76	CAS-TST	I	Test pin "L": Test mode with no cassette compartment
77	MCLK	I	Channel clock input (9.408MHz)
78	PBDT	I	ATF SYNC PB data input
79	SWP	О	Switching pulse output
80	A-PWM	O	PWM signal output for AGC

Pin No	Pin Name	I/O	Function
81	R-PWM	О	PWM signal output for reel motor
82	T-PWM	О	PWM signal output for tension regulater plunger
83	D-PWM	О	PWM signal output for drum motor drive
84	C-PWM	О	PWM signal output for capstan motor
85	L-FIX	I	Fixed at "L"
86	XTEST	I	Test pin "L": Test mode (For adjustment)
87	POW-DWN	I	Not used (Fixed at "H")
88	VSS	_	Ground
89	VDD	_	Power supply (+5V)
90	VPP		Connected to +5V
91	ATSY	О	ATF sampling pulse #2 output
92	AREA	О	Not used
93	ADINT	О	A/D converter reset output "L": Reset
94	DAINT	О	D/A digital filter reset output "L": Reset
95	LIN-MUT	О	Line mute output "L": Active
96	_	_	Not used
97	RLY-MUT	О	Relay mute signal output "L": Active
98	DIG-MUT	О	Mute signal to CXD2605Q "H": Active
99	_	_	Not used
100	R-CCW	О	Reel motor CCW output "L": RVS direction

• IC801 Display Control (CXP82320-086Q)

Pin No	Pin Name	I/O	Function
1	Н	I	Fixed at "H"
2	RMC	I	Remote control signal input
3	TEST	I	Test pin "L": Test mode (For Fluorescent indicator, key and remote commander check)
4	A1 METER	О	Digital peak level meter 4-bit address bus
5	A2 METER	О	Digital peak level fileter 4-bit address ous
6	M MUT	I	Level meter mute signal input
7	ACK	О	Communication standby complete signal output to main, mecha control
8	SC	I	Serial clock input from main, mecha control
9	SI	I	Serial data input from main, mecha control
10	SO	О	Serial data output to main, mecha control
11	CS METER	О	Chip select signal output to Digital peak level meter
12	RD METER	О	Read signal output to Digital peak level meter
13	WR METER	О	Write signal output to Digital peak level meter
14 to 21	_	О	Not used
22 to 29	AD0 to AD7	I	Key input
30	XRST	I	System reset input "L": Active
31	EXTAL	I	System clock input (4.19MHz)
32	XTAL	О	System clock output (4.19MHz)
33	VSS	_	Ground
34 to 57	S0 to S23	О	Fluorescent indicator tube segment drive output
58 to 70	T12 to T0	0	Fluorescent indicator tube grid drive output
71	VFDP	I	-30V power supply for driving fluorescent indicator tube
72	VDD	_	Power supply (+5V)
73	NC	_	Connected to +5V
74 to 77	D0 to D3 METER	I/O	Digital peak level meter 4-bit data bus
78	Н	I	Fixed at "H"
79	REQ	I	Communication request signal input from main, mecha control
80	MODE	I	Fixed at "L"

• IC802 Digital Peak Level Meter (MSM6338RS)

Pin No	Pin Name	I/O	Function
1	DATA	I	fs serial data input (2's complement)
2	BCK	I	fs serial data fetch clock (Bit clock)
3	LRCK	I	fs input Lch/Rch discrimination signal "H": Rch, "L": Lch
4	XRST	I	Reset input "L": Reset
5	WR	I	Data write request input (Data write at rising edge)
6	RD	I	Data read request input "L": Read enable
7	CS	I	Chip select input "L": Select
8	VSS		Ground
9	D0	I/O/Z	4-bit data bus (Tristate)
10	NC		Not used
11	D1	I/O/Z	
12	D2	I/O/Z	4-bit data bus (Tristate)
13	D3	I/O/Z	
14	A0	I	Address input Selects internal register
15	A1	I	Address input Selects internal register
16	VDD	_	Power supply (+5V)

O/Z: In case of no output data, it becomes high impedance.

SECTION 6 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. CASE AND BACK PANEL SECTION

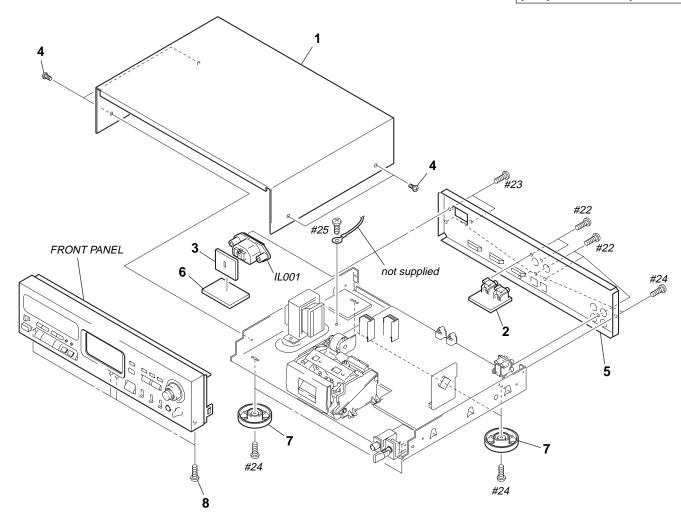
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

CND: Canadian model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

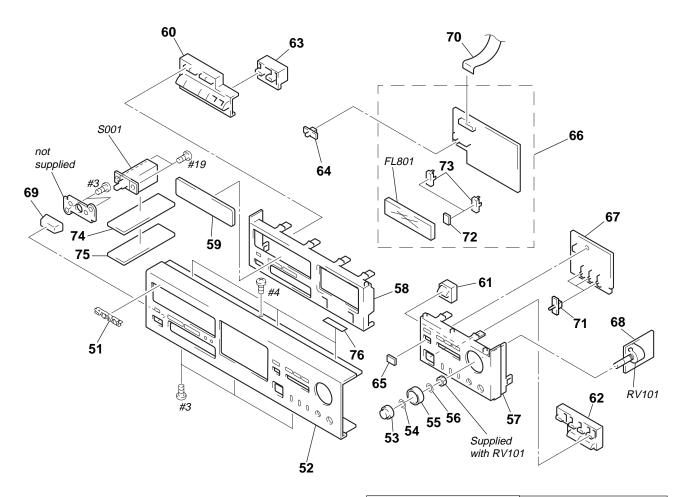
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
* 1	3-350-407-41	CASE		* 5	3-018-941-11	PANEL, BACK (AEP,UK)	
* 2	1-661-402-11	COAX I/O BOARD		* 6	1-661-405-11	INLET BOARD	
* 3	1-661-406-11	IL COVER BOARD		7	4-956-885-01	FOOT (F58175S2W)	
4	3-704-366-21	SCREW (CASE)(M3X10)		8	3-703-685-21	SCREW (+BV 3X8)	
* 5	3-018-941-01	PANEL, BACK (US,CND)		△ IL001	1-251-234-11	INLET, AC	

6-2. FRONT PANEL SECTION



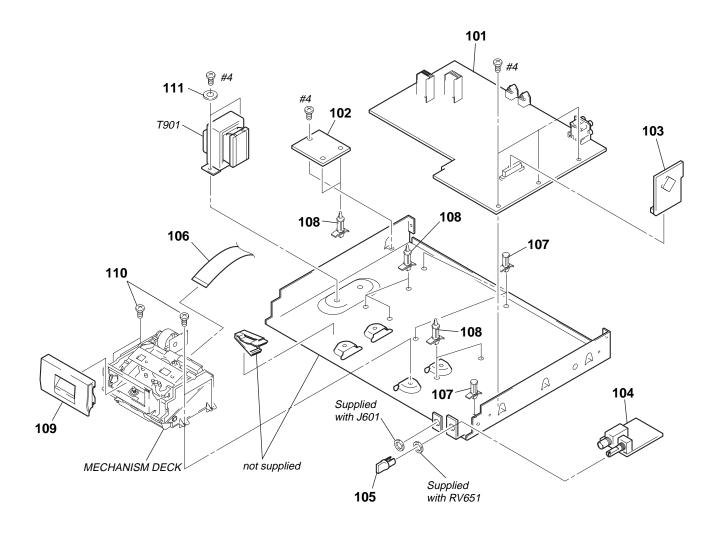
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.

Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
51 52	4-908-848-31 3-018-940-01	EMBLEM, SONY PANEL, FRONT		* 66 * 67	A-2007-739-A 1-661-399-11	DISPLAY BOARD, COMPLETE REMOCON BOARD	
53	3-382-635-01	KNOB (REC-R)		* 68	1-661-400-11	REC VOL BOARD	
54	3-356-957-01	SPRING		69	4-922-921-21	BUTTON (POWER)	
55	3-382-634-01	KNOB (REC-L)		70	1-775-464-11	WIRE (FLAT TYPE)(17 CORE)	
56 57 58 59 60	3-382-627-01 3-922-823-21 3-922-822-11 3-922-932-01 3-922-824-21	()		71 * 72 * 73 * 74 * 75	3-917-216-02 4-932-810-11 4-947-170-01 1-661-403-11 1-661-404-11	KNOB (TIMER) CUSHION (FL) HOLDER AC SW BOARD SW COVER BOARD	
61 62 63 64 65	3-922-825-21 3-922-826-21 3-922-827-21 4-922-518-01 4-969-185-01	BUTTON (2) BUTTON (3) BUTTON (4) KNOB (TIMER) WINDOW (REMOTE CONTROL)		76 FL801 RV101 ▲ S001	3-831-441-99 1-517-382-11 1-241-937-11 1-572-267-51	CUSHION, SPEAKER INDICATOR TUBE, FLUORESCENT RES, VAR, CARBON 20K/20K SWITCH, PUSH (AC POWER)(1 KEY)(POWER)

6-3. CHASSIS SECTION



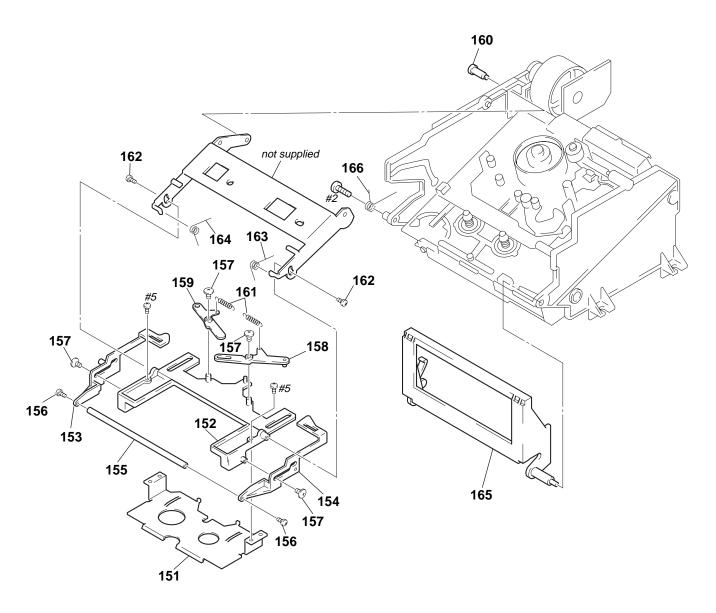
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

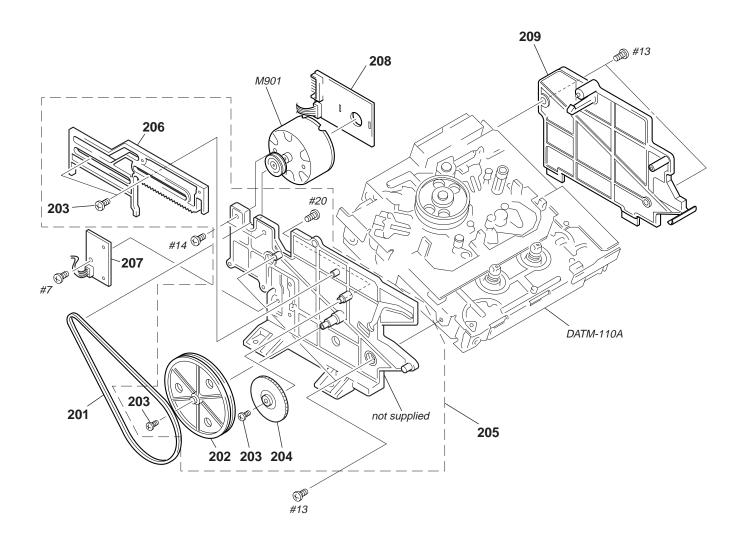
Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
* 101	A-2007-737-A	MAIN BOARD, COMPLETE (US,CND)		* 107	3-670-570-00	SPACER, SUPPORT	
* 101	A-2007-740-A	MAIN BOARD, COMPLETE (AEP,UK)		108	4-924-098-01	HOLDER, PC BOARD	
* 102	1-661-401-11	PRIMARY BOARD		109	X-3374-441-1	PANEL (CASSETTE) ASSY	
* 103	1-656-335-11	SBM DF BOARD					
* 104	1-656-334-11	HEADPHONE BOARD		110	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
				111	3-701-418-00	WASHER, SPECIAL	
105	X-3362-818-1	KNOB (DIA. 12) ASSY (B), FLAT		△ T901	1-427-889-11	TRANSFORMER, POWER (US,CND)	
106	1-775-389-11	WIRE (FLAT TYPE)(31 CORE)		 ∆ T901	1-427-890-11	TRANSFORMER, POWER (AEP,UK)	

6-4. CASSETTE COMPARTMENT SECTION

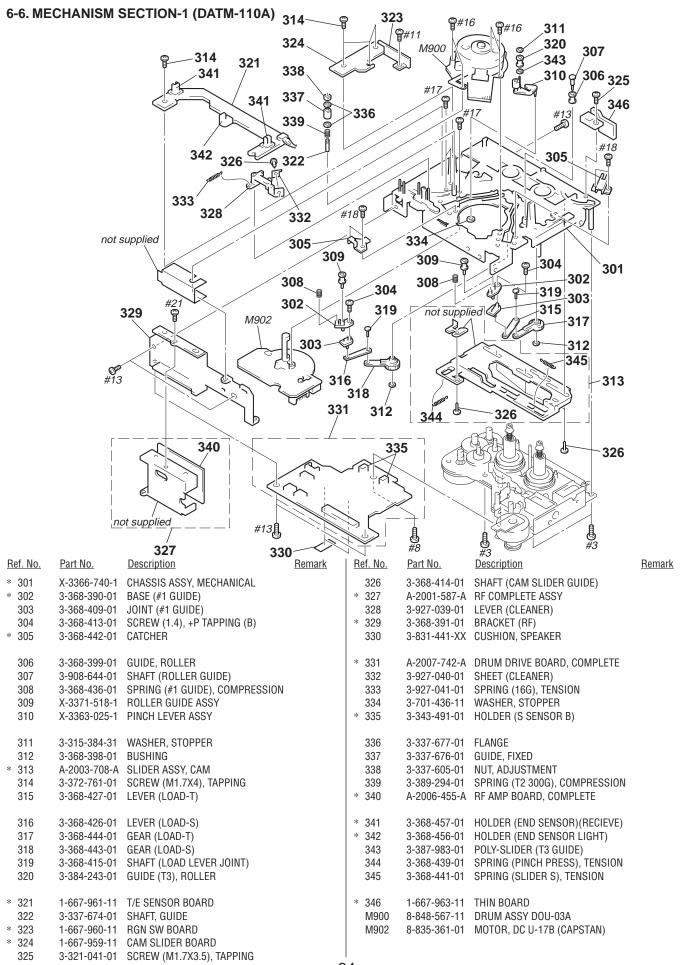


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	<u>Remark</u>
151	3-373-224-01	HOLDER (LOWER)		160	4-931-471-01	SCREW (STEP)	
152	3-373-237-03	HOLDER (UPPER), CASSETTE				, ,	
153	3-373-223-01	SLIDER (L)		161	3-632-859-00	SPRING, BRAKE LEVER RETURN	
154	3-373-222-01	SLIDER (R)		162	3-318-203-61	SCREW (B1.7X4), TAPPING	
* 155	3-373-217-01	SHAFT (JOINT)		163	3-373-215-01	SPRING (R), TORSION	
				164	3-373-216-01	SPRING (L), TORSION	
156	3-345-648-61	SCREW (M1.4), TOOTHED LOCK		165	3-382-648-01	HOLDER (WINDOW)	
157	3-318-201-11	SCREW (B)(1.4X3), TAPPING					
158	3-373-218-01	LEVER (R)		166	3-373-212-01	SPRING (CASSETTE)	
159	3-373-219-01	LEVER (L)					

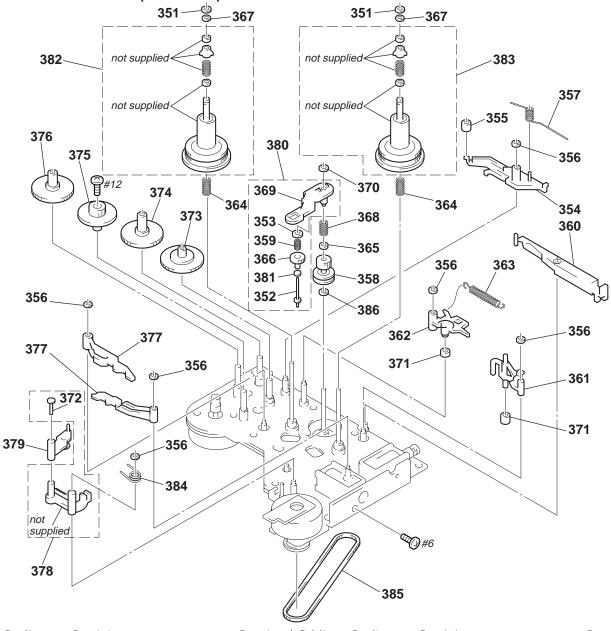
6-5. CHASSIS L/R SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	<u>Remark</u>
201	4-931-470-01	BELT (DRIVING)		206	3-373-221-01	SLIDER (RACK)	
202	3-373-214-01	PULLEY		* 207	1-655-916-11	CASSETTE COMPARTMENT SW BOAR	D
203	2-623-756-01	SCREW, (B1.7X3), TAPPING		* 208	1-655-913-11	CASSETTE COMPARTMENT MOTOR B	OARD
204	3-373-213-01	GEAR, DRIVING		* 209	3-373-235-01	CHASSIS (R)	
205	A-2004-153-E	CHASSIS (L) ASSY		M901	X-3370-655-1	MOTOR ASSY (CASSETTE COMPARTM	MENT)

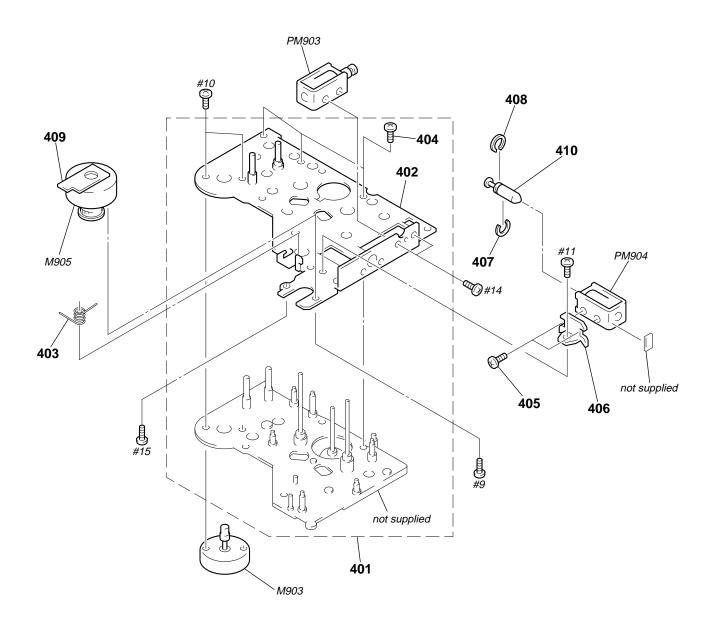


6-7. MECHANISM SECTION-2 (DATM-110A)



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
351	3-315-384-01	WASHER, STOPPER		370	3-315-384-31	WASHER, STOPPER	
352	3-375-210-01	SHAFT (GOOSENECK GEAR)					
353	3-368-422-01			371	3-377-332-01	TUBE (BREAK2)	
* 354	3-368-455-01	LEVER (GEAR LOCK)		372	3-368-415-01	SHAFT (LOAD LEVER JOINT)	
355	3-368-418-01	TUBE (BREAK)		373	3-368-421-01	GEAR (CAM DRIVE C)	
		,		374	3-373-039-01	GEAR (CAM DRIVE B)	
356	3-368-398-01	BUSHING		375	3-368-403-01	GEAR (CAM DRIVE D)	
357	3-368-430-01	SPRING (GEAR LOCK)					
358	X-3363-022-1	GEAR (REEL DRIVE) ASSY		376	3-368-402-01	GEAR (CAM DRIVE A,B)	
359	3-923-260-01	SPRING, COMPRESSION		377	X-3363-024-1	LEVER (BT) ASSY	
* 360	3-368-453-01	LEVER (BRAKE SOLENOID)		378	X-3369-126-1	LEVER (BT SOLENOID)	
				* 379	3-368-454-01	LEVER (BT SELECTION)	
* 361	3-368-447-01	LEVER (BRAKE S)		380	X-3364-581-4	LEVER (F/R) ASSY	
* 362	3-368-446-01	LEVER (BRAKE T)					
363	3-368-438-01	SPRING (BREAK), TENSION		381	3-701-436-01	WASHER, 1.6	
364	3-905-586-02	SPRING (FF/REW), COMPRESSION		382	A-2004-476-A	TABLE (T) ASSY, REEL	
365	3-368-422-11	POLY-SLIDER(DIA. 5.5-DIA. 1.5)		383	A-2004-475-A	TABLE (S) ASSY, REEL	
				384	3-383-478-01	SPRING (B.T LEVER RETURN)	
366	3-368-406-01	GEAR (GOOSENECK)		385	3-368-417-01	BELT (170TN10-1.0T), TIMING	
367	3-578-224-00	WASHER					
368	3-923-261-01	SPRING (FR LEVER), COMPRESSION		386	3-701-436-01	WASHER, 1.6	
369	3-368-450-01	LEVER (F/R)					
			6	5			

6-8. MECHANISM SECTION-3 (DATM-110A)



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
* 401	A-2004-478-A	CHASSIS (REEL) ASSY		408	3-905-867-01	SPRING (STOPPER)	
* 402	X-3366-312-1	CHASSIS ASSY, REEL		* 409	1-667-962-11	REEL MOTOR BOARD	
403	3-368-431-01	SPRING (B.T SOLENOID)		410	3-380-525-01	ARBOR (BT ADJUSTMENT), MAVABL	E
404	2-623-756-01	SCREW, (B1.7X3), TAPPING					
405	3-368-423-01	SCREW (M2.6), STEP		M903	X-3363-109-1	MOTOR (CAM) ASSY	
				M905	X-3363-110-2	MOTOR (REEL) ASSY	
* 406	3-368-416-01	BRACKET (B.T SOLENOID)		PM903	1-454-732-11	SOLENOID, PLUNGER (BRAKE)	
407	3-919-599-01	SPACER (P)		PM904	1-454-536-11	SOLENOID, PLUNGER (TENSION)	

AC SW

CAM SLIDER

SECTION 7 ELECTRICAL PARTS LIST CASSETTE COMPARTMENT MOTOR

CASSETTE COMPARTMENT SW COAX I/O

Note:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- · Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All resistors are in ohms METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

• SEMICONDUCTORS

In each case, u: μ , for example: $uA...: \mu\,A...,\,uPA...: \mu\,PA...,\,uPB...: \mu\,PB...,$ $uPC...: \mu PC..., uPD...: \mu PD...$

CAPACITORS

 $uF: \mu F$

 COILS $uH: \mu H$

Abbreviation

CND: Canadian model

Ref. No.	Part No.	<u>Description</u>		<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	
*	1-661-403-11	AC SW BOARD ********			*	1-655-916-11	CASSETTE COMP			-	
		< CONNECTOR >					< SWITCH >				
CN004	1-580-230-51	PIN, CONNECTOR (PC BO	ARD) 2P		S1 S2			SWITCH, PUSH (1 KEY)(CASSETTE LOCK) SWITCH, PUSH (1 KEY)(CASSETTE OUT)			
		< SWITCH >			****		******	, ,		,	**
 ∆ S001	1-572-267-51	SWITCH, PUSH (AC POW	POWER)	*	1-661-402-11	COAX I/O BOARD			*****	**	
*****************					1 001 402 11	*********	:				
ήc	1-667-959-11	CAM SLIDER BOARD					< CAPACITOR >				
*	1-535-303-00	WIRE, JUMPER			C520 C523	1-162-306-11 1-162-179-11		0.01uF 0.1uF	20%	16V 50V	
		< SWITCH >	C524 C525	1-162-282-31 1-162-306-11		100PF 0.01uF	10% 20%	50V 16V			
					C526	1-164-159-11		0.1uF	20 /0	50V	
SW1 SW2		SWITCH, PUSH (1 KEY)(S SWITCH, PUSH (1 KEY)(F					< CONNECTOR >				
******	*******	*********	******	*****	* CN521	1-564-506-11	PLUG, CONNECTO	OR 3P			
*	1-655-913-11	CASSETTE COMPARTMENT					< JACK >				
		< CAPACITOR >			J521 J522		JACK, PIN 1P (DI JACK, PIN 1P (DI				
					3322	1-770-220-11	•	GITAL GUAN	IAL UUT)		
C1	1-161-772-11	CERAMIC 0.1uF	10%	25V			< RESISTOR >				
		< CONNECTOR >			R521 R522	1-247-804-11		75 47	5%	1/4W 1/4W	_
* CN1	1-564-498-11	PIN, CONNECTOR 5P			R522	1-249-401-11 1-247-804-11		47 75	5% 5%	1/4W	Г
* CN2	1-564-337-00	PIN, CONNECTOR 3P			R524	1-249-417-11	CARBON	1K	5%	1/4W	F
		< MOTOR >					< TRANSFORMER	} >			
M901	X-3370-655-1	MOTOR ASSY (CASSETTE	MENT)	T521	1-409-594-11	COIL (WITH COR	E)				
******	******	**************				******	*********	*********	******	*****	**

DISPLAY

DRUM DRIVE

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			Remark	
*	Δ-2007-739-Δ	DISPLAY BOARD,	COMPLETE			R831	1-249-427-11	CARRON	6.8K	5%	1/4W	F
	A 2001 103 A	*******				R841	1-249-437-11		47K	5%	1/4W	'
						R851	1-249-427-11		6.8K	5%	1/4W	Е
*	4 022 010 11	CUSHION (FL)				R861	1-249-437-11		47K	5%	1/4W	'
*		\ /										
*	4-947-170-01	HULDEK				R871	1-249-437-11	CARBON	47K	5%	1/4W	
		< CAPACITOR >				R881	1-249-417-11		1K	5%	1/4W	F
						R882	1-249-437-11		47K	5%	1/4W	
C881	1-164-096-11		0.01uF		50V	R883	1-249-437-11		47K	5%	1/4W	
C882	1-164-096-11		0.01uF		50V	R884	1-249-437-11		47K	5%	1/4W	
C883	1-164-096-11		0.01uF		50V	R885	1-249-437-11	CARBON	47K	5%	1/4W	
C884	1-126-177-11	ELECT	100uF	20%	10V							
C885	1-164-096-11	CERAMIC	0.01uF		50V	R886	1-249-437-11	CARBON	47K	5%	1/4W	
						R887	1-249-417-11	CARBON	1K	5%	1/4W	F
C886	1-164-096-11	CERAMIC	0.01uF		50V	R888	1-249-437-11	CARBON	47K	5%	1/4W	
						R889	1-249-437-11	CARBON	47K	5%	1/4W	
		< CONNECTOR >				R890	1-249-429-11	CARBON	10K	5%	1/4W	
CN801	1-568-860-11	SOCKET, CONNEC	TOR 17P			R891	1-249-429-11	CARRON	10K	5%	1/4W	
011001	1 000 000 11	,		001/		11001	1 2 10 120 11		1010	070	1, 100	
		< COMPOSITION	CIRCUIT BLC	JUK >				< SWITCH >				
CP801		COMPOSITION CI				S802		SWITCH, KEY BOA	,	,		
CP802		COMPOSITION CI				S803	1-554-937-11	SWITCH, KEY BOA	ARD (PLAY 🕨	►)		
CP803	1-233-566-11	COMPOSITION CI	RCUIT BLOC	K		S804		SWITCH, KEY BOA				
CP804	1-233-566-11	COMPOSITION CI	RCUIT BLOC	K		S805	1-554-937-11	SWITCH, KEY BOA	ARD (AMS, S	ELECT, ▶	▶▶ I)	
		< FLUORESCENT	INDICATOR	>		S806	1-554-937-11	SWITCH, KEY BOA	ARD (MODE,	MENU)		
		VI EGGIIEGGEIVI	III DIOMI OIL 2			S807	1-554-937-11	SWITCH, KEY BO	ARD (RESET	FNTFR)		
FL801	1-517-382-11	INDICATOR TUBE	FLUORESCI	FNT		S811		SWITCH, KEY BO			1)	
. 200 .			,			S812		SWITCH, KEY BOA			.,	
		< IC >				S813		SWITCH, KEY BOA				
		(10)				S814		SWITCH, KEY BOX				
IC801	8-752-890-04	IC CXP82320-08	860			3014	1-334-337-11	OVVITOII, KLI DOZ	AIID (I AUGL	••)		
IC802		IC MSM6338RS	lo Q			S815	1_55/1_037_11	SWITCH, KEY BOA	ARD (REC MI	ITE ()		
10002	0-733-333-03	10 10101010330113				S817		SWITCH, SLIDE (I		JIL O)		
		< TRANSISTOR >				3017	1-371-320-11	SWITCH, SLIDE (I	NFUI)			
		< manoioron >						< VIBRATOR >				
Q801	8-729-620-05	TRANSISTOR 25	C2603-FF									
Q802		TRANSISTOR 25				X801	1-577-359-21	VIBRATOR, CERA	MIC (4 19ME	l ₇)		
Q803		TRANSISTOR 28				7,001	1 077 000 21	VIDIUM OIL, OLIM	10110 (1.101011	12)		
0000	0 725 020 05	THANGIOTOTI ZC	702000 E1			******	******	******	*******	*****	******	k*
		< RESISTOR >										
		111201010117				*	A-2007-742-A	DRUM DRIVE BOA	ARD COMPL	FTF		
R801	1-249-427-11	CARRON	6.8K	5%	1/4W F			*********	,			
R802	1-249-415-11		680	5%	1/4W F							
R803	1-249-417-11		1K	5%	1/4W F	*	3-343-491-01	HOLDER (S SENS	OR B)			
R804	1-249-419-11		1.5K	5%	1/4W F		0 0 10 10 1 0 1	HOLDEN (O OLNO	ON B)			
R805	1-247-843-11		3.3K	5%	1/4W			< CAPACITOR >				
		0, 11, 12, 01, 1	0.0	0,70	.,							
R806	1-249-425-11	CARBON	4.7K	5%	1/4W F	C01	1-126-176-11	ELECT	220uF	20%	10V	
R807	1-249-429-11		10K	5%	1/4W	C02	1-126-177-11		100uF	20%	10V	
R811	1-249-427-11		6.8K	5%	1/4W F	C03	1-126-301-11		1uF	20%	50V	
R812	1-249-415-11		680	5%	1/4W F	C04		CERAMIC CHIP	0.0022uF	10%	100V	
R813	1-249-417-11		1K	5%	1/4W F	C05		CERAMIC CHIP	0.0022ur 0.0047uF	5%	50V	
11010	1 470 711-11	SALIDON	111	J /0	1/ 7 V V 1	000	1 100-017-00	OLIMINIO OIIII	0.00 1 1 ui	J /0	30 V	
R814	1-249-419-11	CARRON	1.5K	5%	1/4W F	C08	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
R815	1-247-843-11		3.3K	5%	1/4W	C10		CERAMIC CHIP	0.01uF	10/0	50V	
R817	1-249-431-11		15K	5%	1/4W	C11		CERAMIC CHIP	0.0022uF	10%	100V	
R818	1-249-435-11		33K	5%	1/4W	C12		CERAMIC CHIP	0.0022ui 0.1uF	10/0	25V	
R821	1-249-435-11		6.8K	5%	1/4W F	C21		CERAMIC CHIP	220PF	10%	50V	
11041	, LIV 721-11	37 11 12 O I V	0.010	J /0	1/ T V V I	021	1 100 001-11	OLIVAVIIO OIIII	LLUI 1	10/0	50 V	
						1						

DRUM DRIVE				
	 	11./1	··	
	 ~	IVI		

HEADPHONE

IL COVER

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
C31	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	R25	1-216-105-91	METAL GLAZE	220K	5%	1/10W
C32	1-164-232-11	CERAMIC CHIP	0.01uF		50V	R26	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V						
C34	1-163-038-91	CERAMIC CHIP	0.1uF		25V	R31	1-216-073-00		10K	5%	1/10W
C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V	R32	1-216-081-00		22K	5%	1/10W
		0011150705				R35		METAL GLAZE	220K	5%	1/10W
		< CONNECTOR >				R36	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
CN01	1-691-459-21	PIN, CONNECTOR	P (PC BOARI	J) 3D		********		********	*******	******	*****
* CN02	1-564-704-11	PIN, CONNECTOR									
* CN03	1-564-338-00	PIN, CONNECTOR		,		*	1-656-334-11	HEADPHONE BOA	ARD		
* CN04	1-564-336-00	PIN, CONNECTOR						******	*		
* CN06	1-564-339-00	PIN, CONNECTOR	8 5P								
								< CAPACITOR >			
CN07		PIN, CONNECTOR		/PE) 5P							
* CN08	1-568-873-11	SOCKET, CONNEC				C681	1-126-934-11		220uF	20%	16V
* CN09	1-564-706-11	PIN, CONNECTOR				C682	1-126-934-11	ELECT	220uF	20%	16V
* CN10	1-564-719-11	PIN, CONNECTOR	(SMALL I)	(PE) 3P				, CONNECTOR .			
		< IC >						< CONNECTOR >			
		(10)				CN652	1-564-510-11	PLUG (MICRO CO	NNFCTOR	6P	
IC01	8-759-148-05	IC CXA8010M				011002	1 001 010 11	1 Loa (Miorio de	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 01	
IC02	8-759-701-01							< IC >			
IC03	8-759-701-01	IC NJM2904M									
						IC601	8-759-602-83	IC M5238P			
		< TERMINAL >									
111004	4 507 770 04	TERMINAL BOAR	D 00011110					< JACK >			
LUG01	1-53/-//0-21	TERMINAL BOAR	D, GROUND)		1004	1 770 004 11	IACK (LADCE TV		·C/	
		< PHOTO INTERR	IIDTED <			J601	1-770-904-11	JACK (LARGE TY	PE)(PHUNE	:5)	
		C FIIOTO INTENIA	UF ILIT >					< COIL >			
PH01	8-719-939-23	PHOTO INTERRU	PTER GP-29	S09-C				(OOIL)			
PH02	8-719-939-23	PHOTO INTERRU				L399	1-236-163-11	ENCAPSULATED	COMPONE	VΤ	
						L400	1-236-163-11	ENCAPSULATED	COMPONE	ΝT	
		< TRANSISTOR >									
								< RESISTOR >			
Q01	8-729-620-05	TRANSISTOR 25				D004	1 040 405 11	CADDON	201/	E0/	4 / 4\4/
Q02	8-729-801-84	TRANSISTOR 25	SB1013-4			R231	1-249-435-11 1-249-425-11		33K	5%	1/4W
		, DECICTOR .				R232			4.7K	5%	1/4W F
		< RESISTOR >				R233	1-249-433-11		22K	5%	1/4W
D01	1 010 001 00	METAL CLUD	0.01/	E0/	4 /4 0 \ \ \	R234	1-247-807-31 1-249-435-11		100	5%	1/4W
R01	1-216-061-00		3.3K	5%	1/10W	R281	1-249-435-11	CARBUN	33K	5%	1/4W
R02 R03	1-216-073-00 1-216-029-00		10K 150	5% 5%	1/10W 1/10W	R282	1-249-425-11	CARRON	4.7K	5%	1/4W F
R04	1-216-029-00		2.2K		1/10W	R283	1-249-423-11		4.7K 22K	5% 5%	
R05	1-216-057-00		2.2K 2.2K	5%	1/10W 1/10W	R284	1-249-433-11		100	5% 5%	1/4W 1/4W
NUU	1-210-037-00	WETAL UNIF	2.2N	5%	1/1000	A R691		THERMISTOR, PO		J /0	1/ 4 VV
R06	1-216-085-00	METAL CHIP	33K	5%	1/10W	△ R692		THERMISTOR, PO			
R07	1-216-025-91	METAL GLAZE	100	5%	1/10W	Z. 1100L	1 000 07 1 11	111211111101011,11	JOITIVE		
R08	1-216-049-91	METAL GLAZE	1K	5%	1/10W			< VARIABLE RESI	STOR >		
R09	1-216-073-00		10K	5%	1/10W						
R10	1-216-073-00	METAL CHIP	10K	5%	1/10W	RV651	1-223-620-11	RES, VAR, CARBO	ON 20K/20k	(PHONE	S LEVEL)
										•	,
R11	1-216-073-00		10K	5%	1/10W	*******	**********	***********	*******	******	******
R12	1-216-113-00	METAL CHIP	470K	5%	1/10W						
R13	1-216-073-00		10K	5%	1/10W	*	1-661-406-11	IL COVER BOARD			
R14	1-216-037-00		330	5%	1/10W			*****			
R21	1-216-073-00	METAL CHIP	10K	5%	1/10W	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		*********		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	***
R22	1-216-081-00	METAL CUID	22K	5%	1/10W	********	·~~*********	·~~~~~~~****	· ~ ~ ~ ~ * * * * * * * * * * * * * * *	~~~~***	~~~~~**
R22 R23	1-216-081-00	METAL CHIP	22K 15K	5% 5%	1/10W 1/10W						
R23 R24	1-216-077-00		6.8K	5% 5%	1/10W 1/10W						
1147	1 210 000-00	WILLYL OLLI	0.01	J /0	1/ 10 00						

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number

specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

INLET

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		-			Hemaik			•	0.4 5		
*	1-661-405-11	INLET BOARD ******				C332 C333	1-164-159-11 1-162-211-31	CERAMIC CERAMIC	0.1uF 33PF	5%	50V 50V
		< CONNECTOR >				C334	1-126-964-11	EI ECT	10uF	20%	50V
		< CONNECTOR >				C335	1-120-904-11	CERAMIC	0.01uF	20%	16V
CN900	1-775-047-11	CORD (WITH CON	INFCTOR)			C336	1-164-159-11	CERAMIC	0.01uF	20 /0	50V
011300	1-773-047-11	MODITITIV) dition	intoronj			C337	1-164-159-11		0.1uF		50V
		< INLET >				C338	1-164-159-11		0.1uF		50V
		VIIVEE1 >				0000	1 101 100 11	OLIVIIVIO	0.141		001
 ∆ IL001	1-251-234-11	INLET, AC (~ AC II	N)			C340	1-164-159-11	CERAMIC	0.1uF		50V
		, - (,			C341	1-164-159-11	CERAMIC	0.1uF		50V
******	******	***********	******	******	*****	C342	1-126-935-11	ELECT	470uF	20%	6.3V
						C343	1-162-294-31	CERAMIC	0.001uF	10%	50V
*	A-2007-737-A	MAIN BOARD, CO				C344	1-162-294-31	CERAMIC	0.001uF	10%	50V
		******	******	*****							
						C345	1-162-294-31	CERAMIC	0.001uF	10%	50V
*	A-2007-740-A	MAIN BOARD, CO				C351	1-162-306-11	CERAMIC	0.01uF	20%	16V
		******	*****	*****		C352	1-162-306-11	CERAMIC	0.01uF	20%	16V
de.	1 500 010 01	HOLDED FLIGE				C353	1-162-294-31	CERAMIC	0.001uF	10%	50V
*	1-533-213-31	HOLDER, FUSE				C354	1-164-159-11	CERAMIC	0.1uF		50V
		< CAPACITOR >				C355	1-164-159-11	CERAMIC	0.1uF		50V
		< GAFAGITUR >				C356	1-164-159-11	CERAMIC	0.1uF 0.1uF		50V 50V
C101	1-126-933-11	FLECT	100uF	20%	10V	C361	1-162-302-11	CERAMIC	0.1u1 0.0022uF	30%	16V
C102	1-162-286-31		220PF	10%	50V	C362	1-162-302-11		0.0022uF	30%	16V
C103	1-126-933-11		100uF	20%	10V	C431	1-162-302-11		0.0022uF	30%	16V
C107	1-130-481-00		0.0068uF	5%	50V	0.0.	02 002	02	0.00224.	0070	
C151	1-126-933-11		100uF	20%	10V	C432	1-162-302-11	CERAMIC	0.0022uF	30%	16V
						C433	1-162-286-31	CERAMIC	220PF	10%	50V
C152	1-162-286-31	CERAMIC	220PF	10%	50V	C439	1-162-306-11	CERAMIC	0.01uF	20%	16V
C153	1-126-933-11	ELECT	100uF	20%	10V	C441	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C157	1-130-481-00	MYLAR	0.0068uF	5%	50V	C442	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C201	1-130-471-00		0.001uF	5%	50V						
C202	1-110-341-11	MYLAR	330PF	5%	50V	C443	1-162-286-31	CERAMIC	220PF	10%	50V
					===:	C444	1-126-964-11	ELECT	10uF	20%	50V
C203	1-110-341-11		330PF	5%	50V	C445	1-162-306-11	CERAMIC	0.01uF	20%	16V
C204	1-130-471-00		0.001uF	5%	50V	C451	1-162-306-11	CERAMIC	0.01uF	20%	16V
C205	1-130-479-00		0.0047uF	5%	50V	C452	1-126-963-11	ELEUI	4.7uF	20%	50V
C206 C207	1-126-933-11 1-162-302-11		100uF 0.0022uF	20% 30%	10V 16V	C453	1-126-338-11	ELECT	47uF	20%	63V
0201	1-102-302-11	CLIMIVIIC	0.00ZZuI	30 /0	100	C454	1-162-306-11		0.01uF	20%	16V
C251	1-130-471-00	MYI AR	0.001uF	5%	50V	C459	1-162-306-11		0.01uF	20%	16V
C252	1-110-341-11		330PF	5%	50V	C471	1-162-306-11		0.01uF	20%	16V
C253	1-110-341-11		330PF	5%	50V	C481	1-162-306-11		0.01uF	20%	16V
C254	1-130-471-00		0.001uF	5%	50V						
C255	1-130-479-00	MYLAR	0.0047uF	5%	50V	C491	1-162-290-31	CERAMIC	470PF	10%	50V
						C492	1-162-306-11	CERAMIC	0.01uF	20%	16V
C256	1-126-933-11	ELECT	100uF	20%	10V	C502	1-162-294-31	CERAMIC	0.001uF	10%	50V
C257	1-162-302-11		0.0022uF	30%	16V	C503	1-162-284-31	CERAMIC	150PF	10%	50V
C302	1-162-197-31		6.8PF	10%	50V	C507	1-130-481-00	MYLAR	0.0068uF	5%	50V
C304	1-126-960-11		1uF	20%	50V						
C307	1-164-159-11	CERAMIC	0.1uF		50V	C509	1-164-159-11		0.1uF		50V
0000	4 400 004 04	OFDANIO	0.004 -	100/	E0)/	C511	1-164-159-11		0.1uF	E0/	50V
C308	1-162-294-31		0.001uF	10%	50V	C515	1-136-169-00		0.22uF	5%	50V
C309	1-126-935-11		470uF	20%	6.3V	C527	1-164-159-11		0.1uF	E0/	50V
C310	1-164-159-11		0.1uF	100/	50V 50V	C601	1-136-165-00	ΓΙLIVI	0.1uF	5%	50V
C311 C312	1-162-198-31 1-162-199-31		8.2PF 10PF	10% 5%	50V 50V	C602	1-136-165-00	EII M	0.1uF	5%	50V
0312	1-102-133-31	OLITAIVIIU	TUFF	J /0	JU V	C602	1-136-163-00		10uF	20%	50V 50V
C313	1-162-197-31	CERAMIC	6.8PF	10%	50V	C622	1-126-964-11		10uF 10uF	20%	50V 50V
C314	1-162-197-31		6.8PF	10%	50V	C623	1-136-165-00		0.1uF	5%	50V
C327	1-162-198-31		8.2PF	10%	50V	C624	1-136-165-00		0.1uF	5%	50V
		-							•		-

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Les composants identifiés par une marque <u>A</u> sont critiques pour la sécurité.

Dof No	Dovt No	Description			Damark	Dof No	Doub No	Description Demonit
Ref. No.	Part No.	<u>Description</u>		=-/	Remark	Ref. No.	Part No.	Description Remark
C625	1-136-165-00		0.1uF	5%	50V	* CN303		SOCKET, CONNECTOR 17P
C626	1-136-165-00		0.1uF	5%	50V	CN341		PIN, CONNECTOR (PC BOARD) 15P
C627 C628	1-126-935-11		470uF 470uF	20% 20%	6.3V	* CN401	1-304-339-00	PIN, CONNECTOR 5P
C630	1-126-935-11 1-126-935-11		470uF 470uF	20%	6.3V 6.3V	* CN601	1 564 700 11	PIN, CONNECTOR (SMALL TYPE) 6P
0030	1-120-935-11	ELEGI	47 UUF	20 /0	0.3 V	CN651		PLUG (MICRO CONNECTOR) 6P
C651	1-136-165-00	FII M	0.1uF	5%	50V	CN691		SOCKET, CONNECTOR 15P
C652	1-136-165-00		0.1uF	5%	50V	CN901		PLUG (MICRO CONNECTOR) 5P
C653	1-136-165-00		0.1uF	5%	50V	CN902		PLUG (MICRO CONNECTOR) 6P
C654	1-136-165-00		0.1uF	5%	50V	011002	1 001 100 11	T LOG (IMIONO CONTILLOTORI) CI
C661	1-136-165-00		0.1uF	5%	50V			< DIODE >
C662	1-136-165-00		0.1uF	5%	50V	D101		DIODE 1N4148M
C663	1-136-165-00		0.1uF	5%	50V	D102		DIODE 1N4148M
C664	1-136-165-00		0.1uF	5%	50V	D103		DIODE 1N4148M
C665	1-136-165-00		0.1uF	5%	50V	D104		DIODE 1N4148M
C666	1-136-165-00	FILM	0.1uF	5%	50V	D151	8-719-987-63	DIODE 1N4148M
C667	1-136-165-00	FILM	0.1uF	5%	50V	D152	8-719-987-63	DIODE 1N4148M
C668	1-126-933-11	ELECT	100uF	20%	10V	D153	8-719-987-63	DIODE 1N4148M
C669	1-136-165-00	FILM	0.1uF	5%	50V	D154	8-719-987-63	DIODE 1N4148M
C670	1-126-933-11	ELECT	100uF	20%	10V	D321	8-719-987-63	DIODE 1N4148M
C671	1-126-933-11	ELECT	100uF	20%	10V	D331	8-719-987-63	DIODE 1N4148M
C672	1-136-165-00	EILM	0.1uF	5%	50V	D333	0 710 007 62	DIODE 1N4148M
C673	1-136-103-00		100uF	20%	10V	D333		DIODE 11ES2
C674	1-136-165-00		0.1uF	5%	50V	D411		DIODE 11ES2
C675	1-136-165-00		0.1uF	5%	50V	D413		DIODE 11ES2
C683	1-136-165-00		0.1uF	5%	50V	D421		DIODE 11ES2
0000			0.1.4.	0,0		3 .2 .	0 0 _ 0 0 0 _	2.022202
C684	1-126-935-11		470uF	20%	6.3V	D422		DIODE 11ES2
C901	1-126-953-11		2200uF	20%	35V	D501		DIODE KV1555NT
C902	1-126-939-11		10000uF	20%	16V	D651		DIODE 1N4148M
C903	1-126-935-11		470uF	20%	6.3V	D901		DIODE 10E2N
C904	1-126-916-11	ELECT	1000uF	20%	6.3V	D902	8-/19-200-//	DIODE 10E2N
C905	1-128-553-11	ELECT	220uF	20%	63V	D903	8-719-200-77	DIODE 10E2N
C906	1-126-968-11	ELECT	100uF	20%	50V	D904	8-719-200-77	DIODE 10E2N
C907	1-162-306-11	CERAMIC	0.01uF	20%	16V	D905	8-719-312-47	DIODE RBA-406B
C908	1-162-306-11	CERAMIC	0.01uF	20%	16V	D906	8-719-200-82	DIODE 11ES2
C910	1-128-548-11	ELECT	4700uF	20%	25V	D907	8-719-987-63	DIODE 1N4148M
C911	1-126-960-11	FLECT	1uF	20%	50V	D908	8-710-015-13	DIODE UZP-9.1BC-TP
C912	1-126-767-11		1000uF	20%	16V	D911		DIODE 10E2N
C913	1-162-306-11		0.01uF	20%	16V	D912		DIODE 10E2N
C920	1-128-548-11		4700uF	20%	25V	D913		DIODE 10E2N
C921	1-162-306-11		0.01uF	20%	16V	D914		DIODE 10E2N
C922	1-126-767-11		1000uF	20%	16V			< FUSE >
C923	1-162-306-11		0.01uF	20%	16V	. 500.	1 500 151 51	FUOR TIME LAG (TO FAL COOK)
C931	1-126-934-11		220uF	20%	16V	 № F901		FUSE, TIME-LAG (T2.5AL 250V)(AEP,UK)
C932	1-164-159-11		0.1uF	000/	50V	 № F901		FUSE (2.5A 250V)(US,CND)
C933	1-126-935-11	ELEUT	470uF	20%	6.3V	 △ F911 △ F921		FUSE, MICRO (SECONDARY)(630mA 125V) FUSE, MICRO (SECONDARY)(630mA 125V)
C934	1-136-165-00	FILM	0.1uF	5%	50V	1021	. 002 117 11	1332, MIONO (0200NDAIN) (000MA 120V)
C998	1-164-159-11		0.1uF		50V			< IC >
C999	1-164-159-11		0.1uF		50V			
						IC301		IC SN74HC00ANS
		< CONNECTOR >				IC302		IC NJM2904M
	. =					IC304		IC CXD2605Q
* CN301		PIN, CONNECTOR		²E) 4P		IC305		IC CXK58257BM-10LL-T6
* CN302	1-568-845-11	SOCKET, CONNEC	TUR 31P			IC306	δ-759-925-90	IC SN74HC74ANS

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number

specified.

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D (N	B . N	D 1.0			5					
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			Remark	
IC308		IC M51953BFP		Q341		TRANSISTOR				
IC310		IC CXP87540-042Q		Q342	8-729-422-57	TRANSISTOR	UN4111			
IC331		IC TORX176 (DIGITAL OPTICAL IN)		0251	0 700 110 76	TDANGICTOD	00A117E UEE			
IC332 IC421		IC TOTX176 (DIGITAL OPTICAL OUT) IC LB1836M		Q351		TRANSISTOR TRANSISTOR				
10421	0-709-020-94	IC LD1030IVI		Q411 Q412		TRANSISTOR				
IC431	8-759-701-01	IC NJM2904M		Q412		TRANSISTOR				
IC441		IC NJM2904M		Q414		TRANSISTOR				
IC451		IC NJM2904M		Q T I T	0 723 327 11	THANOIOTOT	20/10000011			
IC501		IC TC7WU04F		Q441	8-729-801-93	TRANSISTOR	2SD1387			
IC602	8-759-602-83	IC M5238P		Q451		TRANSISTOR				
				Q452	8-729-620-05	TRANSISTOR	2SC2603-EF			
IC603		IC CXD8493M-E1		Q453	8-729-927-11	TRANSISTOR	2SA1585SQR			
IC604		IC M5278L05		Q454	8-729-927-12	TRANSISTOR	2SC4115SQR			
IC605		IC M5279L05-TP								
IC606	8-759-094-53			Q455		TRANSISTOR				
IC651	8-759-900-72	IC NE5532P		Q456		TRANSISTOR				
10050	0.750.000.70	IO NECESOR		Q457		TRANSISTOR				
IC652	8-759-900-72			Q458		TRANSISTOR				
IC653 IC654		IC CXD8505BQ IC M5278L05		Q459	8-729-620-05	TRANSISTOR	2502603-EF			
IC634 IC681		IC M5218AL		Q481	9_720_901_02	TRANSISTOR	2CD1227			
IC901		IC PQ05RF11		Q503		TRANSISTOR				
10301	0-733-003-20	10 1 00311111		Q504		TRANSISTOR				
IC902	8-759-069-28	IC PQ05RF11		Q505		TRANSISTOR				
IC903		IC M5230L-A		Q601		TRANSISTOR				
		IC uPC2406AHF								
IC999	8-759-426-52	IC AT24C01A-10SC-TP-B		Q651	8-729-422-57	TRANSISTOR	UN4111			
				Q654		TRANSISTOR				
		< IC LINK >		Q902	8-729-140-97	TRANSISTOR	2SB734-34			
				Q903		TRANSISTOR				
		LINK, IC (PRF630 0.63A)(AEP,UK)		Q911	8-729-141-83	TRANSISTOR	2SB1094-LK			
⚠ ICP921	1-532-837-21	LINK, IC (PRF630 0.63A)(AEP,UK)								
		14.017		Q921	8-729-209-15	TRANSISTOR	2SD2012			
		< JACK >				< RESISTOR >				
* 1101	1_560_///2_11	JACK, PIN 4P (ANALOG (LINE))				< NESISTUR >				
. 3101	1-303-443-11	JACK, FIN 4F (ANALOG (LINL))		R102	1_2/10_///1_11	CARBON	100K	5%	1/4W	
		< COIL >		R103	1-249-429-11	CARBON	10K	5%	1/4W	
		(0012)		R104	1-249-441-11	CARBON	100K	5%	1/4W	
L301	1-410-509-11	INDUCTOR 10uH		R105	1-249-425-11		4.7K	5%	1/4W	F
L302	1-410-509-11	INDUCTOR 10uH		R106	1-249-425-11	CARBON	4.7K	5%	1/4W	F
L331	1-410-509-11	INDUCTOR 10uH								
L341	1-410-509-11	INDUCTOR 10uH		R107	1-249-401-11	CARBON	47	5%	1/4W	F
L501	1-410-499-41	INDUCTOR 1.5uH		R108	1-249-401-11		47	5%	1/4W	F
				R152	1-249-441-11		100K	5%	1/4W	
L502		INDUCTOR 10uH		R153	1-249-429-11		10K	5%	1/4W	
L601		INDUCTOR 10uH		R154	1-249-441-11	CARBON	100K	5%	1/4W	
L991	1-410-509-11	INDUCTOR 10uH		Die	1 040 405 11	CADDON	4.71/	E0/	4 / 4\ 4	г
		< GROUND PLATE >		R155 R156	1-249-425-11 1-249-425-11		4.7K 4.7K	5% 5%	1/4W 1/4W	
		C GROUND FEATE >		R157	1-249-401-11		4.7 K	5%	1/4W	
* LUG501	4-916-318-01	PLATE. GROUND		R158	1-249-401-11		47	5%	1/4W	
		TERMINAL BOARD, GROUND		R201	1-259-440-11		3.3K	1%	1/6W	
_50052							2.2	. , •	•	
		< TRANSISTOR >		R202	1-259-440-11	CARBON	3.3K	1%	1/6W	
				R203	1-259-440-11		3.3K	1%	1/6W	
Q221	8-729-141-30	TRANSISTOR 2SC3623A-LK		R204	1-259-440-11	CARBON	3.3K	1%	1/6W	
Q271		TRANSISTOR 2SC3623A-LK		R205	1-259-436-11		2.2K	1%	1/6W	
Q321		TRANSISTOR DTC144ES		R206	1-259-436-11	CARBON	2.2K	1%	1/6W	
Q322		TRANSISTOR DTC144ES				045557	,	401	4 (8)	
Q340	8-729-620-05	TRANSISTOR 2SC2603-EF		R207	1-259-444-11	CARBON	4.7K	1%	1/6W	
				I						

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Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>		Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	
R208	1-259-444-11	CARBON	4.7K	1%	1/6W		R355	1-249-437-11	CARBON	47K	5%	1/4W	
R209	1-249-419-11	CARBON	1.5K	5%	1/4W	F	R356	1-249-437-11	CARBON	47K	5%	1/4W	
R210	1-249-419-11		1.5K	5%	1/4W		11000	1 243 407 11	OAITDON	7710	3 /0	1/700	
						Г	R357	1 240 420 11	CARBON	10K	5%	1/4W	
R211	1-249-441-11	CARBON	100K	5%	1/4W		l	1-249-429-11					
							R358	1-249-429-11	CARBON	10K	5%	1/4W	
R212	1-247-807-31	CARBON	100	5%	1/4W		R359	1-249-429-11	CARBON	10K	5%	1/4W	
R213	1-249-409-11	CARBON	220	5%	1/4W		R360	1-249-429-11	CARBON	10K	5%	1/4W	
R214	1-249-407-11	CARBON	150	5%	1/4W	F	R361	1-249-429-11	CARBON	10K	5%	1/4W	
R221	1-249-441-11	CARBON	100K	5%	1/4W								
R222	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R362	1-249-413-11	CARBON	470	5%	1/4W	F
							R363	1-249-429-11	CARBON	10K	5%	1/4W	
R251	1-259-440-11	CARBON	3.3K	1%	1/6W		R364	1-249-429-11	CARBON	10K	5%	1/4W	
R252	1-259-440-11	CARBON	3.3K	1%	1/6W		R365	1-249-429-11	CARBON	10K	5%	1/4W	
R253	1-259-440-11	CARBON	3.3K	1%	1/6W		R366	1-249-429-11	CARBON	10K	5%	1/4W	
	1-259-440-11				1/6W		11000	1-243-423-11	OAITDON	TOIX	J /0	1/700	
R254			3.3K	1%			Dace	1 040 405 11	CADDON	221/	E0/	4 / 4\4/	
R255	1-259-436-11	CARBON	2.2K	1%	1/6W		R368	1-249-435-11	CARBON	33K	5%	1/4W	
							R369	1-249-435-11	CARBON	33K	5%	1/4W	
R256	1-259-436-11		2.2K	1%	1/6W		R370	1-249-437-11	CARBON	47K	5%	1/4W	
R257	1-259-444-11	CARBON	4.7K	1%	1/6W		R371	1-249-441-11	CARBON	100K	5%	1/4W	
R258	1-259-444-11	CARBON	4.7K	1%	1/6W		R373	1-249-417-11	CARBON	1K	5%	1/4W	F
R259	1-249-419-11	CARBON	1.5K	5%	1/4W	F							
R260	1-249-419-11	CARBON	1.5K	5%	1/4W	F	R374	1-249-429-11	CARBON	10K	5%	1/4W	
							R375	1-249-429-11	CARBON	10K	5%	1/4W	
R261	1-249-441-11	CARBON	100K	5%	1/4W		R376	1-249-429-11	CARBON	10K	5%	1/4W	
R262	1-247-807-31	CARBON	1001	5%	1/4W		R377	1-249-429-11	CARBON	10K	5%	1/4W	
R263	1-249-409-11	CARBON	220	5%	1/4W	Е	R378	1-249-407-11	CARBON	150	5%	1/4W	Е
							11070	1-243-407-11	UANDUN	130	J /0	1/ 4 VV	'
R264	1-249-407-11		150	5%	1/4W	F	D070	1 040 447 44	OADDON	417	F0/	4 / 4\4	_
R272	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R379	1-249-417-11	CARBON	1K	5%	1/4W	F
							R380	1-249-437-11	CARBON	47K	5%	1/4W	_
R303	1-249-437-11		47K	5%	1/4W		R381	1-249-409-11	CARBON	220	5%	1/4W	F
R305	1-249-429-11	CARBON	10K	5%	1/4W		R382	1-249-411-11	CARBON	330	5%	1/4W	
R306	1-249-429-11	CARBON	10K	5%	1/4W		R383	1-249-411-11	CARBON	330	5%	1/4W	
R307	1-249-409-11	CARBON	220	5%	1/4W	F							
R308	1-249-429-11	CARBON	10K	5%	1/4W		R391	1-249-437-11	CARBON	47K	5%	1/4W	
				- / -			R411	1-249-429-11	CARBON	10K	5%	1/4W	
R310	1-249-409-11	CARBON	220	5%	1/4W	F	R412	1-249-415-11	CARBON	680	5%	1/4W	F
R321	1-249-433-11	CARBON	22K	5%	1/4W		R413	1-249-415-11	CARBON	680	5%	1/4W	
R322	1-249-437-11		47K	5%	1/4W		R414	1-217-639-00	FUSIBLE	2.2	5%	1/4W	
	1-249-413-11		47N 470		1/4W	г	2211717	1 217 000 00	TOOIDLL	2.2	3 /0	1/ 4 4 4	'
R323				5%			R415	1-249-415-11	CARBON	680	5%	1/4W	Е
R329	1-249-427-11	CARBON	6.8K	5%	1/4W	F	l						
				==:		_	R416	1-249-415-11	CARBON	680	5%	1/4W	Г
R330	1-249-409-11		220	5%	1/4W	F	R431	1-249-441-11		100K	5%	1/4W	
R332	1-249-437-11		47K	5%	1/4W		R432	1-249-441-11		100K	5%	1/4W	
R333	1-249-417-11		1K	5%	1/4W	F	R433	1-249-441-11	CARBON	100K	5%	1/4W	
R335	1-247-807-31	CARBON	100	5%	1/4W								
R336	1-249-431-11	CARBON	15K	5%	1/4W		R434	1-249-441-11	CARBON	100K	5%	1/4W	
							R441	1-249-441-11	CARBON	100K	5%	1/4W	
R337	1-249-421-11	CARBON	2.2K	5%	1/4W	F	R442	1-249-441-11	CARBON	100K	5%	1/4W	
R338	1-249-421-11		2.2K	5%	1/4W		R443	1-249-441-11	CARBON	100K	5%	1/4W	
R339	1-249-435-11		33K	5%	1/4W		R444			10K	5%	1/4W	
R340	1-249-429-11		10K	5%	1/4W			1 2 10 120 11	ONTIDON	TOIL	0 70	1/ 100	
						_	R445	1-249-433-11	CARBON	22K	5%	1/4W	
R341	1-249-425-11	CARBUN	4.7K	5%	1/4W	Г	l						_
				=		_	R446	1-249-401-11		47	5%	1/4W	Г
R342	1-249-425-11		4.7K	5%	1/4W		R447	1-249-441-11		100K	5%	1/4W	
R343	1-249-425-11		4.7K	5%	1/4W	F	R449	1-249-441-11		100K	5%	1/4W	_
R344	1-249-437-11		47K	5%	1/4W		R450	1-249-417-11	CARBON	1K	5%	1/4W	F
R345	1-249-413-11	CARBON	470	5%	1/4W	F							
R351	1-249-441-11	CARBON	100K	5%	1/4W		R451	1-249-441-11	CARBON	100K	5%	1/4W	
							R452	1-249-417-11	CARBON	1K	5%	1/4W	F
R352	1-249-441-11	CARBON	100K	5%	1/4W		R453	1-249-429-11	CARBON	10K	5%	1/4W	
R353	1-249-441-11		100K	5%	1/4W		R454	1-249-429-11	CARBON	10K	5%	1/4W	
R354	1-249-441-11		100K	5%	1/4W		R455	1-249-441-11		100K	5%	1/4W	
	. =			- /0	., ., .							,	

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PRIMARY

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>		Ref. No.	Part No.	<u>Description</u>			Remark	
R456	1-249-417-11	CARBON	1K	5%	1/4W	F	 № R931	1-219-123-11	FUSIBLE	0.47	5%	1/4W	F
R457	1-249-417-11	CARBON	1K	5%	1/4W	F	R981	1-249-411-11	CARBON	330	5%	1/4W	
R458	1-247-807-31	CARBON	100	5%	1/4W		R982	1-249-409-11	CARBON	220	5%	1/4W	F
R459	1-247-807-31		100	5%	1/4W								
R461	1-247-807-31		100	5%	1/4W		R983	1-249-409-11	CARRON	220	5%	1/4W	F
11101	1 217 007 01	ONTEON	100	0 70	1, 100		R984	1-249-415-11		680	5%	1/4W	
R462	1-249-417-11	CARBON	1K	5%	1/4W	F	R985	1-249-409-11		220	5%	1/4W	
R463	1-249-417-11		1K	5%	1/4W		R986	1-249-417-11		1K	5%	1/4W	
			100	5%		Г				10K		1/4W	Г
R464	1-247-807-31				1/4W	_	R991	1-249-429-11	CANDUN	IUK	5%	1/400	
R465	1-249-417-11		1K	5%	1/4W	r	D000	4 0 40 40 7 44	0.4.0.0.0.1	0.017	F0/	4 / 45 8 4	_
R466	1-249-441-11	CARBON	100K	5%	1/4W		R992	1-249-427-11		6.8K	5%	1/4W	
							R998	1-249-413-11		470	5%	1/4W	
R471	1-249-441-11		100K	5%	1/4W		R999	1-247-739-11		100	5%	1/2W	
R472	1-249-441-11		100K	5%	1/4W		R1519	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R473	1-249-429-11		10K	5%	1/4W								
R481	1-249-441-11		100K	5%	1/4W				< VARIABLE RESIS	STOR >			
R482	1-249-401-11	CARBON	47	5%	1/4W	F							
							RV451	1-241-765-11	RES, ADJ, CARBO	N 22K			
R483	1-249-437-11	CARBON	47K	5%	1/4W								
R484	1-249-437-11	CARBON	47K	5%	1/4W				< RELAY >				
R485	1-249-441-11	CARBON	100K	5%	1/4W								
R491	1-249-417-11	CARBON	1K	5%	1/4W	F	RY651	1-515-803-11	RELAY				
R492	1-249-417-11	CARBON	1K	5%	1/4W	F							
									< VIBRATOR >				
R493	1-249-407-11	CARBON	150	5%	1/4W	F							
R494	1-247-807-31		100	5%	1/4W	-	X301	1-567-816-11	VIBRATOR, CRYST	TAI (18MHz)			
R501	1-249-417-11		1K	5%	1/4W	F	X302		VIBRATOR, CRYS				
R502	1-249-429-11		10K	5%	1/4W		X303		VIBRATOR, CRYS	,			
R503	1-249-441-11		100K	5%	1/4W		7,000	1 307 014 11	VIDITATOR, OTTO	IAL (24WI12)			
11000	1 243 441 11	OAITBON	10010	3 70	1/700		*******	******	*******	******	*****	*****	**
R516	1-249-429-11	CARBON	10K	5%	1/4W								
R517	1-249-417-11		1K	5%	1/4W	F	*	1-661-401-11	PRIMARY BOARD				
R518	1-249-401-11		47	5%	1/4W			1 001 401 11	********				
R525	1-247-807-31		100	5%	1/4W	'							
R526	1-249-429-11		10K	5%	1/4W				< CAPACITOR >				
N320	1-249-429-11	CANDUN	IUN	J /0	1/4 VV				< GAFAGITUR >				
R527	1-249-429-11	CARBON	10K	5%	1/4W		△ C001	1-113-916-11	CERAMIC	0.01uF	20%	250V	
R528	1-247-903-00		1M	5%	1/4W		△ C002	1-113-916-11		0.01uF	20%	250V	
R601	1-249-413-11		470	5%	1/4W	F	△ C003	1-113-920-11		0.0022uF	20%	250V	
R603	1-249-437-11		476 47K	5%	1/4W	'	△ C004	1-113-920-11		0.0022uF	20%	250V	
R604	1-249-437-11		47K 470	5%	1/4W	_	∆ C004	1-113-920-11		0.0022uF 0.0022uF	20%	250V	
N00 4	1-249-413-11	CANDUN	470	J /0	1/4 VV	Г	Z!\\\C0003	1-113-920-11	GENAIVIIG	0.00ZZUF	20 /0	230 V	
R661	1-247-903-00	CARRON	1M	5%	1/4W				< CONNECTOR >				
11001 △ R902	1-212-873-11		47	5%	1/4W	Е			< OUNINEOTOTI >				
R903	1-260-111-11		10K	5%	1/4W	'	CN001	1_580_230_11	PIN, CONNECTOR	(PC BOARD)	1 2 P		
R904	1-249-433-11		22K	5%	1/2VV 1/4W		CN002		PIN, CONNECTOR				
R905	1-249-425-11		4.7K	5%	1/4W	_	CN002		PIN, CONNECTOR	`) 21		
กขบบ	1-249-425-11	CANDUN	4./ N	J /0	1/4 VV	Г	GIVUUS	1-304-321-00	FIN, GUINNEGIUN	21			
R906	1-249-433-11	CARRON	22K	5%	1/4W				< COIL >				
R907	1-249-437-11		47K	5%	1/4W				(OOIL)				
R911	1-247-807-31		100	5%	1/4W		 ∆ L 001	1-424-485-11	FILTER LINE				
R912	1-247-807-31		100	5%	1/4W		2!\(\(\) L001	1-424-405-11	TILILII, LIIVL				
						_			. CDOUND DLATE				
R913	1-249-401-11	CARBUN	47	5%	1/4W	Г			< GROUND PLATE	:>			
R914	1-249-409-11	CARBON	220	5%	1/4W	F	* C001	3-346-266-12	PLATE, GROUND				
R915	1-249-409-11		22K	5% 5%	1/4W	1	LUGUUI	0-040-200-12	I LAIL, GITOUND				
							*****	***	**********	****	****	****	**
R917	1-249-431-11		15K	5%	1/4W	Е	1 · · · · · · · · · · · · · · · · · · ·						2-16
R918	1-249-425-11		4.7K	5%	1/4W								
R923	1-249-401-11	CAKRON	47	5%	1/4W	٢							
D004	1 240 400 11	CADDON	220	E0/	1////	_							
R924	1-249-409-11		220	5%	1/4W	٢							
R927	1-249-431-11	UANDUN	15K	5%	1/4W								

The components identified by Les composants identifiés par $\text{mark} \ \! \! \triangle$ or dotted line with mark \triangle are critical for safety. Replace only with part number

specified.

une marque A sont critiques pour la sécurité.

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REEL MOTOR

REMOCON

RF AMP

1-661-400-11 PEC VOL BOARD PEC VOL BOAR	Ref. No.	Part No.	<u>Description</u>			Remark	1	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
* CONNECTOR : S837 1-572-289-11 SWITCH, SLIDE (BM NODE) : S837 1-558-397-11 SWITCH, SLIDE (BM NODE) : S837 1-558-397-11 SWITCH, SLIDE (BM NODE) : S837 1-558-397-11 SWITCH, KEY BOARD (ID, AUTO) : S837 1-568-397-11 SWITCH, KEY BOARD (ID, AUTO) : S837 1-568-397-11 SWITCH, KEY BOARD (ID, AUTO) : S837 1-568-397-11 SWITCH, KEY BOARD (ID, AUTO) : S837 1-408-788-30 III CERAMIC CHIP D. 22 III CERAMIC CHI	*	1-661-400-11						S827	1-572-268-11	SWITCH, SLIDE (I	REC MDOE)		•
* CRESISTOR > * CRESISTOR > * * A - 2006-455-A R FAMP BOARD, COMPLETE ** * * A - 2006-455-A R FAMP BOARD, COMPLETE ** * * * A - 2006-455-A R FAMP BOARD, COMPLETE ** * * * A - 2006-455-A R FAMP BOARD, COMPLETE ** * * * A - 2006-455-A R FAMP BOARD, COMPLETE ** * * * A - 2006-455-A R FAMP BOARD, COMPLETE ** * * * A - 2006-45-A A * * A - 2006-455-A A * * A - 2006-455-A A * * * A			< CONNECTOR >					S837	1-572-268-11	SWITCH, SLIDE (I	D MODE)	CLOSE =	:)
**************************************	* CN602	1-564-708-11	PIN, CONNECTOR	(SMALL TY	PE) 6P					•	,	ale ale ale ale ale ale	a sia sia sia sia sia sia sia sia
R101 1-249-434-11 CABBON 27K 5% 1/4W R151 1-249-434-11 CABBON 27K 5% 1/4W R152 1-249-435-11 CABBON 27K 5% 1/4W R152 1-249-435-11 CABBON 27K 5% 1/4W R152 1-249-435-11 CABBON 35 % 1/4W R153 1-254-937-11 SWITCH, KEY BOARD (ID, RINLINGER) CABPAST			< RESISTOR >									*****	*****
VARIABLE RESISTOR >								*	A-2000-400-A	,			
RV101	K151	1-249-434-11			5%	1/4VV				< CAPACITOR >			
C3 1-163-251-11 C8FAMIC CHIP 109F 5% 50V			< VARIABLE RESI	51UK >				C1	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
**************************************	RV101	1-241-937-11	RES, VAR, CARBO	N 20K/20K	(REC LEV	/EL)				CERAMIC CHIP		10%	50V
1-667-982-11 RELIMOTOR BOARD	at a desire at a desire at a desire at												
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CO7 1-163-077-00 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C07 1-163-077-00 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > CMOTOR > CMOTOR > C11 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C11 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C11 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C11 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C11 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C11 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C11 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C11 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C11 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C0 1-163-003-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C0 1-163-003-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C0 1-163-003-11 CERAMIC CHIP 0.1uF 10% 25V CNDTOR > C0 1-163-003-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.0039 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.004 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.004 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.004 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.004 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.004 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.004 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.004 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.004 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.004 F 10% 50V CNDTOR > C0 1-164-004-11 CERAMIC CHIP 0.004 F 10% 50V CNDTOR P 10% 50V CNDTOR P 10% 50V CNDTOR P	*	1-667-962-11	REEL MOTOR BOA	ARD				65	1-104-299-11	CENAIVIIC CHIP	U.ZZUF	1070	23V
CO7 1-163-077-00 CERAMIC CHIP 0.1uF 10% 25V CO8 1-124-778-00 ELECT CHIP 22uF 20% 6.3V CO9 1-163-09-11 CERAMIC CHIP 0.1uF 10% 25V CO1 1-163-09-11 CERAMIC CHIP 0.2uF 10% 25V CO2 1-124-778-00 ELECT CHIP 22uF 10% 25V CO3 1-124-778-00 ELECT CHIP 22uF 10% 25V CO3 1-124-778-01 ELECT CHIP 22uF 10% 25V CO3 1-124-778-01 ELECT CHIP 22uF 20% 6.3V CO3 1-124-778-00 ELECT CHIP 22uF 20% 6.3V CO3 1-124-778-01 ELECT CHIP 22uF 20% 6.3V CO3 1-124-778-01 ELECT CHIP 22uF 20% 6.3V CO3 1-163-001-11 CERAMIC CHIP 100PF 5% 50V CO2 1-164-182-11 CERAMIC CHIP 100PF 5% 50V CO2 1-164-182-11 CERAMIC CHIP 200FF 10% 50V CO2 1-164-182-11 CERAMIC CHIP 200FF 5% 50V CO2 1-164-182-11 CERAMIC CHIP 200FF 5% 50V CO2 1-124-778-00 ELECT CHIP 22uF 20% 6.3V CO3 1-163-038-91 CERAMIC CHIP 100FF 5% 50V CO2 1-124-778-00 ELECT CHIP 22uF 20% 6.3V CO3 1-163-038-91 CERAMIC CHIP 100FF 5% 50V CO2 1-124-778-00 ELECT CHIP 22uF 20% 6.3V CO3 1-163-038-91 CERAMIC CHIP 100FF 5% 50V CO2 1-124-778-00 ELECT CHIP 22uF 20% 6.3V CO3 1-163-038-91 CERAMIC CHIP 100FF 5% 50V CO3 1-164-082-11 CERAMIC CHIP 100FF 5% 50		1 007 002 11						C6	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
CO7								C 7	1-163-009-11		0.001uF		
CO7			< CAPACITOR >					C8	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
Second Color Seco													
M905 X-3363-110-2 MOTOR (REEL) ASSY	C07	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V		C10	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
M905 X-3363-110-2 M0TOR (REEL) ASSY			< MOTOR >					C11	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
**************************************								C12	1-164-299-11	CERAMIC CHIP	0.22uF	10%	25V
**************************************	M905	X-3363-110-2	MOTOR (REEL) AS	SSY				C13	1-107-682-11	CERAMIC CHIP	1uF		

C17	*****	is also also also also also also also als	is also also also also also also also als	*******	******	******	**	U15	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C17	*	1-661-399-11	REMOCON BOARD)				C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V
CAPACITOR CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CHIP COUNTY CERAMIC CHIP CHIP CHIP CERAMIC CHIP CERAMIC CHIP				_								10%	
C891 1-164-096-11 CERAMIC O.01uF SOV C20 1-164-182-11 CERAMIC CHIP O.0033uF 10% SOV C20 C21 1-163-005-11 CERAMIC CHIP 470PF 10% SOV C22 1-126-603-11 CERAMIC CHIP 470PF 10% SOV C22 1-126-603-11 CERAMIC CHIP 470PF 10% SOV C23 1-163-251-11 CERAMIC CHIP O.1uF C25 C24 1-163-038-91 CERAMIC CHIP O.1uF C25 C2								C18	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C891			< CAPACITOR >										
C21	0001	1 104 000 11	CEDAMIC	0.015		E0\/		C20	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C C C C C C C C C C C C C	6891	1-104-090-11	CERAIVIIC	U.UTUF		507		C21	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C23			< IC >										
R822 1-249-415-11 CARBON 680 5% 1/4W F R823 1-249-419-11 CARBON 1.5K 5% 1/4W F R825 1-249-429-11 CARBON 3.3K 5% 1/4W F R826 1-249-425-11 CARBON 3.3K 5% 1/4W F R828 1-249-429-11 CARBON 3.3K 5% 1/4W F R828 1-249-435-11 CARBON 3.3K 5% 1/4W R837 1-249-435-11 CARBON 3.3K 5% 1/4W R838 1-249-435-11 CARBON 3.3K 5% 1/4W R852 1-2549-435-11 CARBON 3.3K 5% 1/4W R852 1-249-439-11 CARBON 3.3K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W R852 1-254-937-11 SWITCH, KEY BOARD (ID, RENUNBER) S823 1-554-937-11 SWITCH, KEY BOARD (ID, REHEARSAL) S824 1-554-937-11 SWITCH, KEY BOARD (WRITE) SWITCH, KEY BOARD (WRITE)									1-163-251-11	CERAMIC CHIP			
R822 1-249-415-11 CARBON 680 5% 1/4W F C27 1-107-682-11 CERAMIC CHIP 1UF 10% 16V R823 1-249-417-11 CARBON 1K 5% 1/4W F R824 1-249-419-11 CARBON 1.5K 5% 1/4W F R825 1-247-843-11 CARBON 3.3K 5% 1/4W F R826 1-249-425-11 CARBON 4.7K 5% 1/4W F R828 1-249-425-11 CARBON 3.3K 5% 1/4W R828 1-249-435-11 CARBON 3.3K 5% 1/4W R828 1-249-435-11 CARBON 3.3K 5% 1/4W R828 1-249-435-11 CARBON 3.3K 5% 1/4W R837 1-249-435-11 CARBON 3.3K 5% 1/4W R838 1-249-435-11 CARBON 3.3K 5% 1/4W R838 1-249-435-11 CARBON 3.3K 5% 1/4W R852 1-249-439-11 CAR	IC891	8-742-018-00	IC SBX1810-59					C24	1-163-038-91	CERAMIC CHIP	0.1uF		
R822 1-249-415-11 CARBON 680 5% 1/4W F R823 1-249-415-11 CARBON 1K 5% 1/4W F R824 1-249-419-11 CARBON 1.5K 5% 1/4W F R825 1-247-843-11 CARBON 3.3K 5% 1/4W F R826 1-249-425-11 CARBON 4.7K 5% 1/4W F R828 1-249-435-11 CARBON 33K 5% 1/4W R838 1-249-435-11 CARBON 33K 5% 1/4W R838 1-249-435-11 CARBON 22K 5% 1/4W R852 1-249-439-11 CARBON 33K 5% 1/4W R852 1-249-439-11 CARBON 33K 5% 1/4W R852 1-249-439-11 CARBON 33K 5% 1/4W R852 1-249-33-11 CARBON 33K 5% 1/4W R852 1-249-33-11 CARBON 33K 5% 1/4W R852 1-259-37-11 SWITCH, KEY BOARD (ID, AUTO) S822 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) S823 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) S824 1-554-937-11 SWITCH, KEY BOARD (WRITE)								C25	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
R822 1-249-415-11 CARBON 680 5% 1/4W F R823 1-249-417-11 CARBON 1K 5% 1/4W F R824 1-249-419-11 CARBON 1.5K 5% 1/4W F R825 1-247-843-11 CARBON 3.3K 5% 1/4W F R826 1-249-425-11 CARBON 4.7K 5% 1/4W F R828 1-249-425-11 CARBON 33K 5% 1/4W F R828 1-249-435-11 CARBON 33K 5% 1/4W R837 1-249-435-11 CARBON 33K 5% 1/4W R838 1-249-435-11 CARBON 33K 5% 1/4W R838 1-249-435-11 CARBON 33K 5% 1/4W R852 1-2549-435-11 CARBON 68K 5% 1/4W R852 1-2549-37-11 SWITCH, KEY BOARD (ID, RENUNBER) S823 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) S824 1-554-937-11 SWITCH, KEY BOARD (WRITE)			< RESISTOR >					C26	1_163_038_01	CEDAMIC CHID	O 1uE		25\/
R823 1-249-417-11 CARBON 1K 5% 1/4W F R824 1-249-419-11 CARBON 1.5K 5% 1/4W F R825 1-247-843-11 CARBON 3.3K 5% 1/4W F R826 1-249-425-11 CARBON 4.7K 5% 1/4W F R827 1-249-429-11 CARBON 10K 5% 1/4W R828 1-249-435-11 CARBON 33K 5% 1/4W R837 1-249-435-11 CARBON 33K 5% 1/4W R838 1-249-435-11 CARBON 33K 5% 1/4W R852 1-249-439-11 CARBON 33K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W R852 1-254-937-11 SWITCH, KEY BOARD (ID, AUTO) S822 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) S823 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) S824 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) S824 1-554-937-11 SWITCH, KEY BOARD (WRITE)	R822	1-249-415-11	CARRON	680	5%	1/4W	F					10%	
R824 1-249-419-11 CARBON 1.5K 5% 1/4W F R825 1-247-843-11 CARBON 3.3K 5% 1/4W F R826 1-249-425-11 CARBON 4.7K 5% 1/4W F R827 1-249-429-11 CARBON 10K 5% 1/4W R828 1-249-435-11 CARBON 33K 5% 1/4W R837 1-249-433-11 CARBON 22K 5% 1/4W R838 1-249-435-11 CARBON 33K 5% 1/4W R852 1-249-435-11 CARBON 33K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W R852 1-554-937-11 SWITCH, KEY BOARD (ID, AUTO) S822 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) S823 1-554-937-11 SWITCH, KEY BOARD (WRITE) R824 1-554-937-11 SWITCH, KEY BOARD (WRITE) R825 1-249-439-11 CARBON 68K 5% 1/4W IC1 8-752-039-01 IC CXA1364R CONNECTOR > CONNECTOR > * CN51 1-566-207-11 PIN, CONNECTOR (PC BOARD) 14P * CN52 1-564-720-11 PIN, CONNECTOR (SMALL TYPE) 4P * CN52 1-564-720-11 PIN, CONNECTOR (FIC BOARD) 14P * CN52 1-564-720-11 PIN, CONNECTOR (FIC BOARD) 14P												1070	
R826 1-249-425-11 CARBON 4.7K 5% 1/4W F R827 1-249-429-11 CARBON 10K 5% 1/4W R828 1-249-435-11 CARBON 33K 5% 1/4W R837 1-249-433-11 CARBON 22K 5% 1/4W R838 1-249-435-11 CARBON 33K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W R852 1-554-937-11 SWITCH, KEY BOARD (ID, AUTO) S822 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) S823 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) S824 1-554-937-11 SWITCH, KEY BOARD (WRITE) * CN51 1-566-207-11 PIN, CONNECTOR (PC BOARD) 14P * CN52 1-564-720-11 PIN, CONNECTOR (PC BOARD) 14P * CN52 1-		1-249-419-11	CARBON		5%								
* CN51										< CONNECTOR >			
R827 1-249-429-11 CARBON 10K 5% 1/4W	R826	1-249-425-11	CARBON	4.7K	5%	1/4W		* ONE4	1 500 007 11	DINI CONNECTOR	/DO DO ADD	. 440	
R828 1-249-435-11 CARBON 33K 5% 1/4W R837 1-249-433-11 CARBON 22K 5% 1/4W R838 1-249-435-11 CARBON 33K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W C1	B827	1-249-429-11	CARRON	10K	5%	1/4W							
R837 1-249-433-11 CARBON 22K 5% 1/4W								ONOZ	1 304 720 11	T IIV, OOIVIVEOTOII	(OWALL I'II	L) +1	
R838 1-249-435-11 CARBON 33K 5% 1/4W R852 1-249-439-11 CARBON 68K 5% 1/4W IC1 8-752-039-01 IC CXA1364R <										< IC >			
< SWITCH > < COIL > S821 1-554-937-11 SWITCH, KEY BOARD (ID, AUTO) L1 1-408-781-00 INDUCTOR CHIP 22uH S822 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) L2 1-408-789-21 INDUCTOR CHIP 100uH S823 1-554-937-11 SWITCH, KEY BOARD (WRITE) L3 1-408-781-00 INDUCTOR CHIP 22uH S824 1-554-937-11 SWITCH, KEY BOARD (WRITE) L3 1-408-781-00 INDUCTOR CHIP 22uH													
\$821 1-554-937-11 \$WITCH, KEY BOARD (ID, AUTO)	R852	1-249-439-11	CARBON	68K	5%	1/4W		IC1	8-752-039-01	IC CXA1364R			
S822 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) L2 1-408-789-21 INDUCTOR CHIP 100uH S823 1-554-937-11 SWITCH, KEY BOARD (WRITE) L3 1-408-781-00 INDUCTOR CHIP 22uH			< SWITCH >							< COIL >			
S822 1-554-937-11 SWITCH, KEY BOARD (ID, RENUNBER) L2 1-408-789-21 INDUCTOR CHIP 100uH S823 1-554-937-11 SWITCH, KEY BOARD (WRITE) L3 1-408-781-00 INDUCTOR CHIP 22uH	C221	1-55/1-027-11	SWITCH KEV BOX	ארוע עון און	TO)			1	1_402_721_00		22πΗ		
S823 1-554-937-11 SWITCH, KEY BOARD (ID, REHEARSAL) L3 1-408-781-00 INDUCTOR CHIP 22uH S824 1-554-937-11 SWITCH, KEY BOARD (WRITE)			,	, ,	,)							
S824 1-554-937-11 SWITCH, KEY BOARD (WRITE)				, .		,							
						,		-			•		
		1-554-937-11											

RF AI	MP R	SN SW S	SBM D	F	SW CC	VER	T/E SEN	NSOR THIN
Ref. No.	Part No.	<u>Description</u> < RESISTOR >			<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u> 1-661-404-11	Description Remark SW COVER BOARD ************************************
R1 R2 R3 R4 R5	1-216-082-00 1-216-082-00 1-216-066-00 1-216-077-00	METAL CHIP	24K 24K 5.1K 5.1K 15K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	******		**************************************
R6 R7 R8 R9 R10	1-216-077-00 1-216-077-00 1-216-079-00 1-216-075-00 1-216-079-00	METAL CHIP METAL CHIP	15K 15K 18K 12K 18K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	*		HOLDER (END SENSOR LIGHT) HOLDER (END SENSOR) (RECEIVE) < DIODE >
R11 R12 R13 R14	1-216-077-00 1-216-077-00 1-216-077-00 1-216-081-00	METAL CHIP METAL CHIP METAL CHIP	15K 15K 15K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	D01		DIODE GL453S < PHOTO TRANSISTOR > PHOTO TRANSISTOR PT4850F
R15	1-216-085-00	METAL CHIP METAL GLAZE	33K 47K	5% 5%	1/10W 1/10W	PH04	8-729-907-25	PHOTO TRANSISTOR PT4850F
R17 R18	1-216-080-00 1-216-073-00	METAL CHIP METAL CHIP < VARIABLE RESI	20K 10K STOR >	5% 5%	1/10W 1/10W	*	1-667-963-11	THIN BOARD *********
RV1 RV2		RES, ADJ, CERME RES, ADJ, CERME	T 4.7K			* CN21	1-564-336-61	< CONNECTOR > PIN, CONNECTOR 2P
******	******	*******	******	*****	*****			< SWITCH >
*	1-667-960-11	RGN SW BOARD				S02	1-572-458-11	SWITCH, PUSH (THIN DET)
S01	1-571-878-11	< SWITCH > SWITCH, PUSH (2 (REC PROOF, CAS	,					**************************************
*******		**************************************	*****	*****	******	70 106 FL801 △ IL001	1-775-389-11 1-517-382-11 1-251-234-11	
0001	1 100 004 01	************* < CAPACITOR >	0.0015	100/	501/	M900 M901 M902	X-3370-655-1 8-835-361-01	DRUM ASSY DOU-03A MOTOR ASSY (CASSETTE COMPARTMENT) MOTOR, DC U-17B (CAPSTAN) MOTOR (CAM) ASSY
C631 C632 C633 C634	1-162-294-31 1-162-282-31 1-164-159-11 1-164-159-11	CERAMIC CERAMIC	0.001uF 100PF 0.1uF 0.1uF	10% 10%	50V 50V 50V 50V	M903 M905 PM903	X-3363-110-2 1-454-732-11	MOTOR (REEL) ASSY SOLENOID, PLUNGER (BRAKE)
CN692	1-573-100-11	< CONNECTOR > PIN, CONNECTOR	15D			PM904 RV101	1-241-937-11 1-572-267-51	SOLENOID, PLUNGER (TENSION) RES, VAR, CARBON 20K/20K SWITCH, PUSH (AC POWER)(1 KEY)(POWER) TRANSFORMER, POWER (US,CND)
011032	1-373-103-11	< IC >	101			<u> </u>		TRANSFORMER, POWER (AEP,UK)
IC607	8-759-196-21	IC CXD8482Q				*******	**********	****************
Dec.	4 040 415 41	< RESISTOR >	470	Fa:	4/40:- =			
R631	1-249-413-11	CARBON *********	470	5% *****	1/4W F			

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number

specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

Ne les remplacer que par une

piéce portant le numéro spécifié.

Ref. No.	Part No.	<u>Description</u>	Remark
ITEL. INU.		& PACKING MATERIALS	Hemaik

<u>^</u>	1-473-921-11 1-551-812-11 1-590-910-11 2-297-913-00 3-861-087-11	CORD, POWER (US,CND) CORD SET, POWER (AEP,UK) WASHER (DIA.5), ORNAMENTAL	H,GERMAN)
	3-920-800-31 3-925-043-31 4-981-643-01 7-682-276-04 7-685-646-79	RACK (L/R) PLATE, ORNAMENTAL COVER, BATTERY (FOR RM-D757) SCREW +RK 5X12 SCREW +BVTP 3X8 TYPE2 IT-3	
******	*********	***********	*****

		HARDWARE LIST	

#1 #2 #3 #4 #5	7-685-851-04 7-685-645-79 7-685-534-19 7-685-871-01 7-621-772-20	SCREW +BVTP 3X6 TYPE2 IT-3 SCREW +BTP 2.6X8 TYPE2 N-S SCREW +BVTT 3X6 (S)	
#6 #7 #8 #9 #10	7-627-854-07 7-685-102-19 7-685-533-19 7-627-450-28 7-627-852-27	SCREW +P 2X4 TYPE2 NON-SLIT SCREW +BTP 2.6X6 TYPE2 N-S +K 1.7X2	
#11 #12 #13 #14 #15	7-621-772-00 7-621-255-15 7-621-773-86 7-627-556-17 7-627-552-27	SCREW +B 2X3 SCREW +P 2X3 SCREW +B 2.6X4 SCREW,PRECISION +P 2.6X3 TYPE1 SCREW,PRECISION +P 1.7X2	
#16 #17 #18 #20 #21		SCREW,PRECISION +P 1.7X4 SCREW +BVTT 2X4 (S) SCREW +BTP 2.6X6 TYPE2 N-S	
#22 #23 #24 #25	7-685-646-79 7-685-660-29 7-685-872-09 7-682-660-09	SCREW +BVTP 4X10 TYPE2 SLIT SCREW +BVTT 3X8 (S)	

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \(\Delta \) sont critiques pour la sécurité.

PCM-R300

REVISION HISTORY

Clicking the version allows you to jump to the revised page. Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

	Description of Revision	
1997.10	New	
2001.06	Correction of electrical parts list (IC301).	(SPM-01011)
2006.04	Ref. No. correction of exploded views illustration (No. 402).	(SPM-06024)
	2001.06	2001.06 Correction of electrical parts list (IC301).